D-Link®
Building Networks for People

Business Solutions Product Guide

Networking and Video Surveillance Solutions

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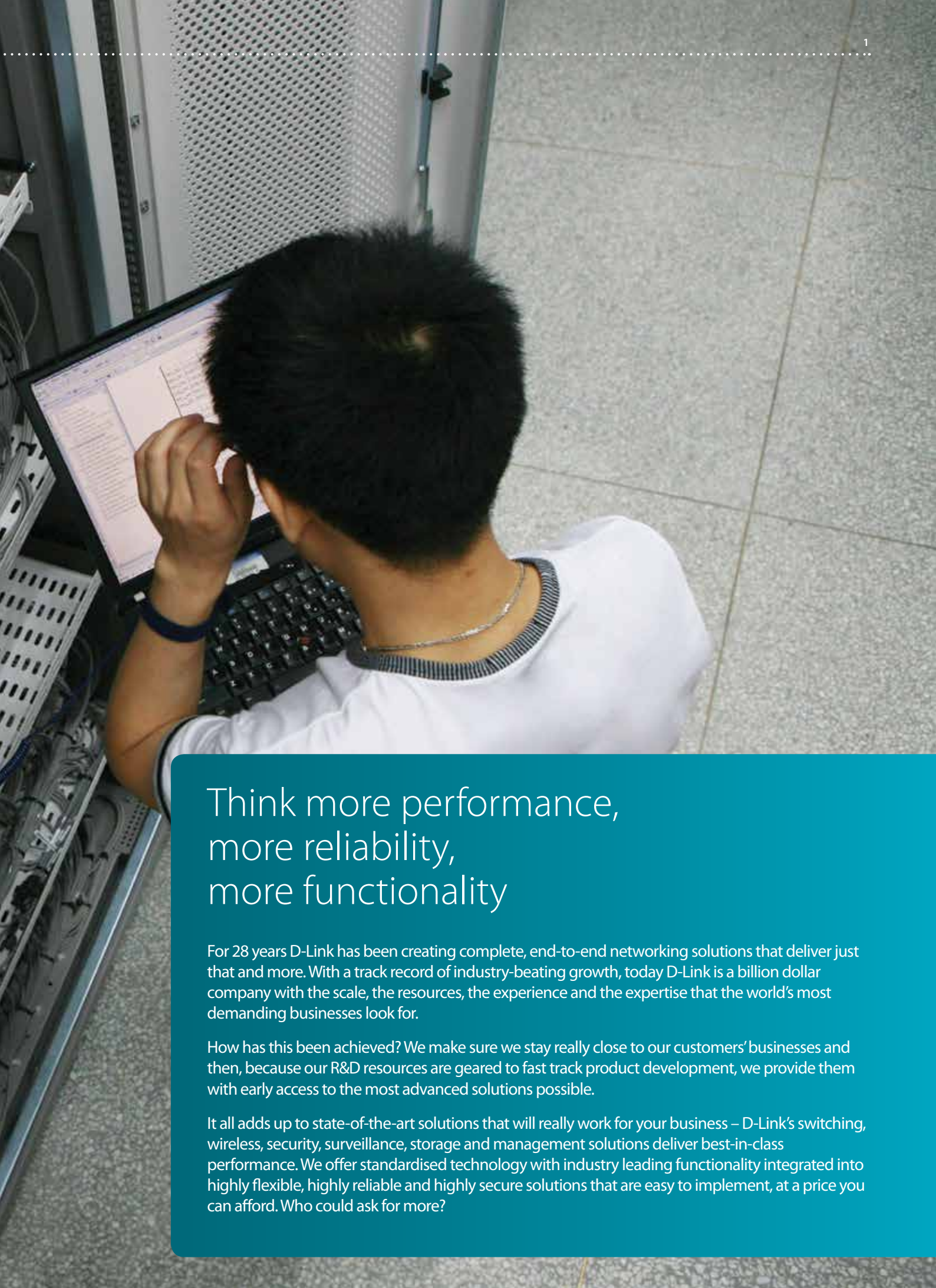


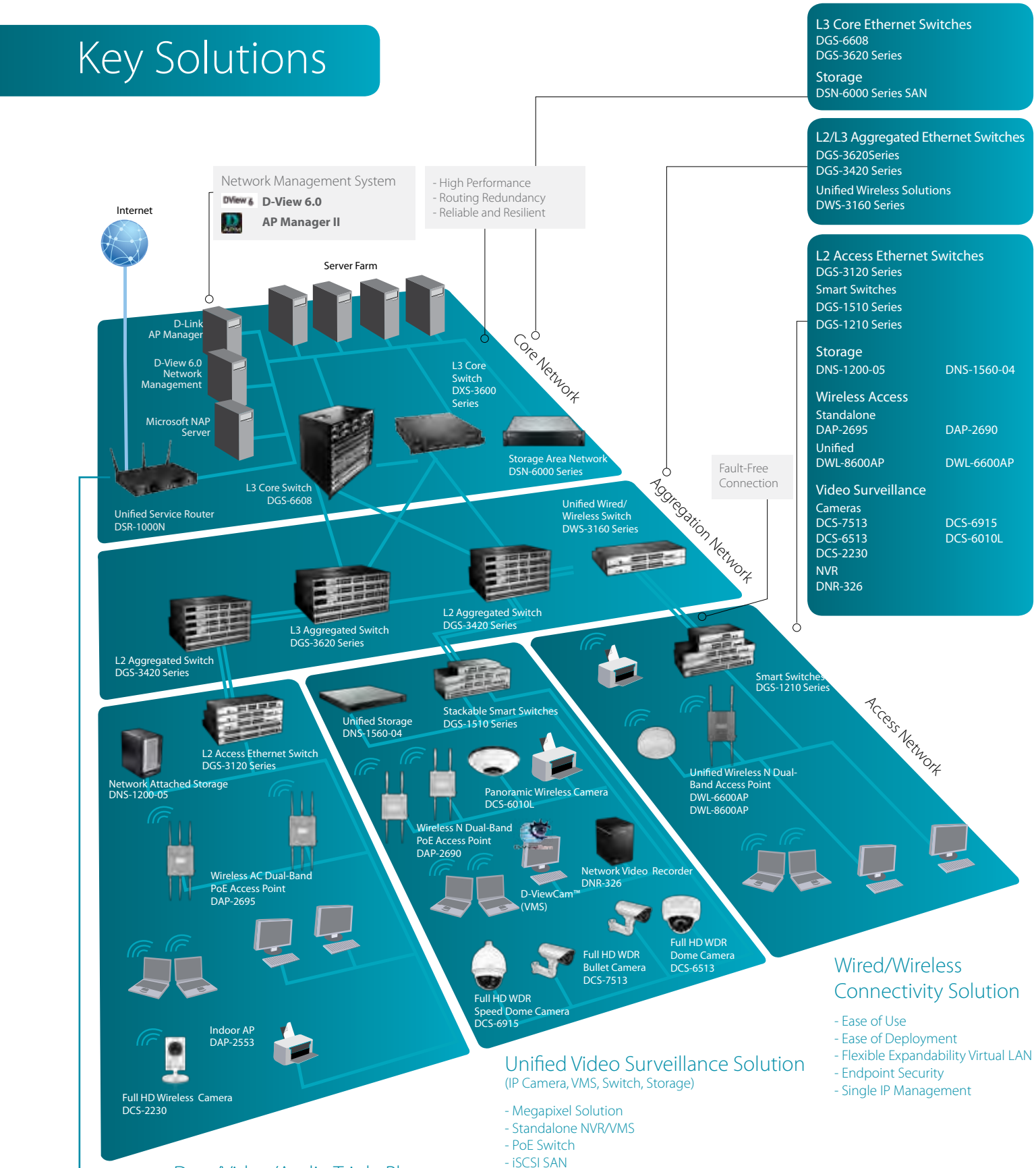
Think more performance, more reliability, more functionality

For 28 years D-Link has been creating complete, end-to-end networking solutions that deliver just that and more. With a track record of industry-beating growth, today D-Link is a billion dollar company with the scale, the resources, the experience and the expertise that the world's most demanding businesses look for.

How has this been achieved? We make sure we stay really close to our customers' businesses and then, because our R&D resources are geared to fast track product development, we provide them with early access to the most advanced solutions possible.

It all adds up to state-of-the-art solutions that will really work for your business – D-Link's switching, wireless, security, surveillance, storage and management solutions deliver best-in-class performance. We offer standardised technology with industry leading functionality integrated into highly flexible, highly reliable and highly secure solutions that are easy to implement, at a price you can afford. Who could ask for more?

Key Solutions



Wired/Wireless Connectivity Solution

- Ease of Use
- Ease of Deployment
- Flexible Expandability Virtual LAN
- Endpoint Security
- Single IP Management

Unified Video Surveillance Solution

(IP Camera, VMS, Switch, Storage)

- Megapixel Solution
- Standalone NVR/VMS
- PoE Switch
- iSCSI SAN

Data/Video/Audio Triple Play Application Solution

- Policy-Based Traffic Prioritisation
- Optimise the Quality of Multi-services

Unified Service Router

- Remote management
- 3G support
- Virtual Private Network (VPN)

Key Solutions

D-Link is a global leader in providing network connectivity solutions for a range of businesses. From the beginning, D-Link engineers have researched, designed and manufactured innovative, standards-based networking solutions that provide our customers with secure, reliable, easy to manage high performance networks. We sell our state-of-the-art hardware at the best prices, and even though price may be the deciding factor for many new customers, D-Link's innovation, reliability and service keeps them loyal year after year.

Access Network

Over the past few years, enterprise access network has seen one of the fastest areas of growth. As technology evolves and user demand increases, enterprise access network is fast turning from a 'traditional' data network to a more complex network with integrated data, voice and multimedia services. D-Link, in meeting the needs of businesses to have more productive processes, is therefore providing the following solutions for their access network:

- Wireless Connectivity
  D-Link Unified solutions bring robust, stable and secure wireless access to the business. The new generation of Wireless AC and N Access Points offer seamless connectivity, self-healing mechanisms, traffic segmentation and centralised management to achieve a wireless environment as productive and secure as a wired network.
- Power over Ethernet
  D-Link's unparalleled range of PoE switches are designed with functionality and robustness in mind. From unmanaged, plug and play solutions, to PoE modules in high-end chassis switches, D-Link offers features like Time-Based PoE to centrally cut off the power when not in use, and the new 802.3at PoE+ standard, to provide extra power to the next generation of network appliances.
- Video Surveillance
  Traditionally, CCTV cameras, Video Recorders and sensors have been a separate part of a business' subsystems. IP technology applied to surveillance brings flexibility, unified management and comprehensive image recording and indexing to modern networks. With a complete range of IP cameras and Network Video Recordings (NVR), D-Link can offer the solution that best matches your business needs.

Aggregation Network

Aggregation network is where traffic from the access network is distributed across the business. Therefore, routing, filtering and WAN access processes, and access to resources like network storage take place at this level. D-Link offers flexible and robust solutions with Layer 2+ and Layer 3 managed switches, ready for the next generation of IP networks:

- IPv6
  As the range of IPv4 addresses are being depleted, IPv6 is being deployed in an increasing number of organisations such as Internet Service Providers (ISP) and international data carriers. Therefore businesses need to build the migration from IPv4 to IPv6 into their Network strategies to ensure that they are able to benefit from the advanced services that only IPv6 can offer. Most D-Link aggregation switches are 'IPv6 Ready' certified and are ready to be integrated in current and future networks, protecting both your investment and IT budget.
- Bandwidth Management and Traffic Filtering and Analysis
  As the business network is under increasing pressure due to the surge on the amount of traffic and additional services, IT administrators need to ensure that traffic is at a reasonable level and network resources are utilised properly. D-Link can offer the tools to run a network smoothly and avoid disruptions, such as bandwidth management to a high level of granularity, D-Link has SafeGuard Engine to protect the switch from unexpected traffic peaks or virus outbreaks, and sFlow compatibility to analyse network sessions in great detail.
- Network Storage
  As the business data grows and new technologies like virtualisation are being widely implemented, effective storage is a primary concern for any business. D-Link's range of Network Access Storage (NAS) devices can ensure that all your important data is easily accessible yet protected from unauthorised access. RAID technology protects your content from disk failures and additional services like FTP and File Server provide secure access to your data from the Internet. For businesses with more complex storage needs, D-Link's Storage Attached Network (SAN) products provide advanced features like consolidation, volume snapshots and virtualisation, with a range of devices that are "VMware Ready" certified.

Core Network

The core is the business backbone and is the most critical part of the network. High availability, resiliency and fault isolation are important factors to avoid critical disruptions. D-Link has the technology to ensure that the core processes run smoothly and meet the business needs:

- 10 Gigabit
  As network traffic increases, Gigabit technology is becoming a bottleneck at the core portion of the network. 10 Gigabit switches as well as 10 Gigabit uplinks on Gigabit switches are being deployed as a crucial technology to ensure that the core can provide the services and features needed at the lower levels of the network. D-Link offer 10 GbE technology in both switches, and copper and fibre modules in a wide variety of Layer 2+ and Layer 3 core switches.
- xStacking Technology
  D-Link's stacking technology provides resiliency and high availability in the form of high-speed, dual-ring stacking solutions that can work around a hardware fault in milliseconds. Faulty hardware can be hot-swapped and replaced without impacting the rest of the network, minimising downtime and ensuring that critical processes are not interrupted.

Switches

If a switch fails, then a business can experience a number of issues, from loss of connectivity for a group of users, to major disruption and downtime for the entire network. D-Link has the knowledge and expertise to help you find the right solution for your business. From the core of your network to its edge, D-Link's comprehensive selection of switches includes 10 Gigabit, Gigabit, Fast Ethernet and PoE that range from entry level to fully managed, more sophisticated solutions. Products under this category include Unmanaged, Smart, Managed, xStack, Chassis and Unified Wireless.

Unmanaged

- Simplest way to build a network and let it run itself
- Plug-and-play connectivity for small businesses
- Ideal for small networks that are sharing resources
- Green Ethernet
- PoE compliant, eliminating the need for external power supplies allowing you to utilise current cables and reducing cable clutter for a tidier system

Smart

- Many of the benefits of managed, as outlined below, but without the complexity or cost
- Ease of configuration through web-management
- Ideal for users wishing to build small to medium size networks but who don't need the advanced features necessary for corporate deployments
- PoE compliant eliminating the need for external power supplies allowing you to utilise current cables and reducing cable clutter for a tidier system

Smart Managed

- Centralised management and virtual stacking via D-Link intuitive single IP management
- Layer 3 static routing allows for scalable network design for future business growth
- Supports unique Auto Voice and Auto Surveillance VLANs to prioritise traffic from VoIP phones and IP cameras in the network

Managed

- Allows administrators to monitor traffic across the network, introduce redundancy and control access
- Found in networks with numerous users and applications, where performance and reliability must be maximised and security enforced
- Ideal for large sites where server farms are deployed, with hundreds of users sharing multiple printers and applications and routinely using wireless access and video-conferencing, such as in corporate headquarters
- Includes D-Link's industry leading selection of xStack switches
- PoE compliant, eliminating the need for external power supplies allowing you to utilise current cables and reducing cable clutter for a tidier system

xStack

- Award-winning range
- High performance and 10GbE stacking options
- 10GbE, Gigabit and Fast Ethernet versions, with Layer 2 and Layer 3 features
- PoE compliant, eliminating the need for external power supplies allowing you to utilise current cables and reducing cable clutter for a tidier system

Chassis

- Enterprise-class performance, security and control
- Modular architecture with redundant control planes option
- High port density with 10GbE line cards available
- High reliability with fault-tolerant topologies ensures rock-solid connectivity, and D-Link Green technology provides eco-friendly power-saving
- Redundant loadsharing power supplies and a hot swappable fan module for mission-critical network applications

Unified Wireless

- Managed switches which offer flexible deployment, one single device can manage both wired and wireless access traffic – unified switch = wireless controller + LAN switch
- Feature-rich centralised management for wireless Access Points (AP) and clients, including security policy and RF parameters
- Enables seamless wireless roaming without the need for cursor re-authentication: necessary in particular for Voice-over-WLAN (VoWLAN) applications
- Resiliency of the entire wireless network through self-healing network and AP load balancing. The unified switch can effectively manage the wireless bandwidth, optimise WLAN traffic and ensure maximum RF coverage

PoE (Power Over Ethernet)

What is Power over Ethernet (PoE)?

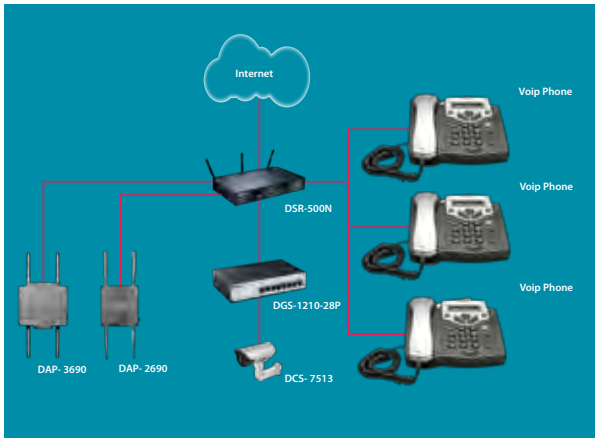
Power over Ethernet allows a single cable to provide both data connection and electrical power to any PoE-enabled devices such as Wireless Access Points, network cameras and IP phones. PoE passes electrical power along with data on Ethernet (LAN)cabling to network devices. It allows you to install and power wireless access points, network cameras and VoIP phones.

With PoE you only need one cable for both power and data so wireless access points and Video Surveillance cameras, for example, can be installed without having to run power to inaccessible places such as ceilings and roofs. You can also protect such devices from outages, by adding a central Uninterruptible Power Supply (UPS), and both monitor and manage energy consumption centrally - perhaps even switching devices off when they're not needed. Support for PoE can be added to existing networks but, if you're serious about it, PoE enabled switches don't need additional wiring and are easier to manage. Either way check for support for industry standards, both on the switches and networking devices you want to power.

What is PoE power budget?

The PoE power budget is the maximum amount of power that a switch can provide to all the devices connected to it. If this is exceeded then devices will not function correctly as they are not receiving adequate power. In order to choose the right switch the overall power consumption for the network must be calculated. This can be done by adding up the maximum power consumption of every device connected to the switch.

It is essential to consider the current and future power requirements of the network, since over specifying the power budget of a switch will result in higher initial costs. D-Link has two Smart switch families to address different requirements, Smart and Smart+. The Smart+ range has higher power budgets and is capable of providing higher power per port than the Smart range which is more economical.



PoE devices can transmit a Discovery Protocol that informs the PoE Switch of the actual power required by the device. If the power is less than the default 15.4W/25.5W, the PoE switch acknowledges the request with its available power and modifies the power budget accordingly. If the requesting powered device exceeds the power budget for the switch, the port is either powered down, or the port remains in low power mode.

IP Phones

IP phones are commonly connected and powered by PoE. A standard IP phone will consume around 4-7W of power whereas one with a backlit, colour screen or even video conferencing capability will use substantially more.

Wireless Access Points

Due to their placements Wireless Access Points typically use PoE to power themselves. Different types of Wireless APs have different power requirements. For example, dual-band concurrent APs require more power as they broadcast on both the 2.4 and 5 GHz frequencies. The latest Wireless AC technology delivers wireless speeds of up to 1300 Mbps on the 5GHz band with enhanced coverage and can benefit from PoE+'s additional power.

IP Cameras

There are several types of IP cameras from a basic box camera to an outdoor pan, tilt and zoom (PTZ) speed dome camera with an integrated heater, each one has a different power requirement.

Basic outdoor IP cameras have a power consumption of about 7W, however additional features require additional power so that the power requirements increases. An outdoor PTZ will require a significantly larger amount of power.

PoE (Power Over Ethernet)

What is PoE +

The original IEEE 802.3af-2003 PoE standard provides up to 15.4 W of DC power (minimum 44 V DC and 350 mA to each device. Only 12.95 W is assured to be available at the powered device as some power is dissipated in the cable. The updated IEEE 802.3at PoE standard also known as PoE+ or PoE plus, provides up to 25.5 W of power.

PoE+ is beneficial for devices that require more power such as Pan-Tilt-Zoom cameras, thin clients and video phones. It also expands PoE functionality to a wider range, making it possible to power a larger number of edge devices from a single PoE port.

How can PoE be Green?

Using D-Link's integrated time-based PoE functionality, it is possible to automatically shut down ports which also shut down the devices on a predefined schedule, saving power, money and increasing security.

Benefits of PoE

- Reduced Costs – With PoE, only one cable - a simple CAT-5 Ethernet is required to be routed to each device instead of two and fewer power adapters are needed. In large organisations this brings a major cost reduction.

- Flexibility – A PoE enabled appliance can be installed virtually anywhere; without the need for AC outlets. This provides flexibility and scalability in placing this network equipment – Switches, Wireless Access Points, and IP Cameras – at the most optimal locations instead of locations where power is available. This also enables better network designs.

- Reliability - PoE infrastructure enables centralised power management that provides back up with an Uninterrupted Power Supply (UPS) to the devices and all the distributed PD networking devices; even during power failures this ensures the reliability and availability of powered devices.

- Network Control – Network administrators can control and monitor devices using SNMP. Devices can be powered down when not in use or if there is unauthorised access, which allows for increased security.

- Simplicity to add, move and change the network - PoE-enabled switches help network additions, moves and changes to be accomplished faster. It allows the network to be more flexible and accommodating to changing business and network requirements.

- Centralised Power Management - Centrally managed power enables remote shutdown or remote reset capabilities. Through managing a PoE-enabled LAN switch via a web browser or by SNMP, remote networking devices can be easily reset or shut down saving the time and expense of dispatching a technician.

- Security - Shutting down unnecessary PoE network devices when no one is at the office ensures better business security.

- Eco-friendly - As with security, shutting down unnecessary PoE network devices can also save power and money for a business.

Chassis Switches

SINGLE CONTROLLER / DUAL CONTROLLER

DGS-6600 Series

Concentrator Switch

10GBE

DXS-3600 Series

Standalone Switches

XSTACK

GIGABIT / FAST ETHERNET

UNMANAGED	SMART	SMART MANAGED	LAYER 2	LAYER 2+	LAYER 3
DGS-1000 Series DGS-105/108 Series DES-1000 Series DES-105/108 Series	 DGS-1100 Series DGS-1210 Series DES-1100 Series DES-1210 Series	 DGS-1500 Series DGS-1510 Series	 DGS-3000 Series DGS-3120 Series DES-3200 Series	 DGS-3420 Series	 DGS-3620 Series

PoE Switches

XSTACK

GIGABIT / FAST ETHERNET

UNMANAGED	SMART	SMART MANAGED	LAYER 2/2+	LAYER 3
DGS-1008P DES-1005P DES-1008PA	DGS-1100-08P DGS-1210-08P DGS-1210-10P DGS-1210-24P DGS-1210-28P **PoE+** DES-1210-08P DES-1210-28P **PoE+**	DGS-1500-28P **PoE+** DGS-1510-28P **PoE+**	DGS-3120-24PC DGS-3120-48PC **PoE+** DGS-3420-28PC DGS-3420-52P **PoE+** DES-3200-28P DES-3200-52P **PoE+**	DGS-3620-28PC DGS-3620-52P **PoE+**

xStack Chassis Switches

DGS-6600 Series

For a customisable solution based on your business needs, D-Link's DGS-6600 modular chassis allows you to implement a solution-specific switch with multiple modules. The DGS-6600 is a Layer 3 backbone chassis-based Gigabit switch that provides everything a business needs for a reliable network. This 4-Slot chassis offers a 576Gbps switch fabric capacity supporting wire speed L2/L3 packet switching in dynamic or static environments. Some of the features include a high port density, with L2/L3/L4 Class of Service (CoS) and Access Control Lists (ACL), QoS, Link Aggregation, hot-swappable line cards and redundant power supply, and traffic monitoring. Designed for performance and flexibility, this chassis switch offers you the price/performance ratio necessary to deploy a cost-effective enterprise backbone network.

- 4/8* slot modular chassis
- Hot-swappable line cards
- Optional redundant power supply
- 4K IP interfaces
- 32K MAC address per module
- 4K VLANs
- 8 priority queues
- 128 trunk group, 8 port per group
- Telnet/console CLI
- SNMP v1,v2c,v3/RMON
- CPU utilisation monitoring
- TFTP client
- Web GUI
- Traffic monitoring
- SYSLOG

DGS-6604-SK

- 4-slot chassis starter kit
- I/O module slot x 3
- CPU module slot x 1
- Switching capacity of up to 576 Gbps
- Up to 144 Gigabit ports
- Up to 48 10-Gigabit ports
- Built in replaceable fan module
- Built in dust filter
- Optional redundant power supply includes
  - DGS-6604 4-slot chassis
  - DGS-6600-CM control module
  - DGS-6600-PWR 850W AC power supply

DGS-6608-SK

- 8-slot chassis starter kit
- I/O module slot x 6
- CPU module slot x 2
- Loadsharing/redundant switching capacity of up to 1.152 Tbps
- Up to 288 Gigabit ports
- Up to 96 10-Gigabit ports
- Built in replaceable fan module
- Built in dust filter
- Optional redundant power supply includes
  - DGS-6608 8-slot chassis
  - DGS-6600-CM-II control module
  - DGS-6600-PWR 850W AC power supply

Modules

10 GbE Modules

DGS-6600-8XG	8-port 10GE XFP module for DGS-6604 only
DGS-6600-24SC2XS	12-Port SFP, 12-Port Combo 1000BASE-T/SFP and 2-Port 10G SFP+ Module for DGS-6604 only
DGS-6600-16XS-D	16-port 10GE SFP+ Module with MPLS function DGS-6600 Series

Gigabit Modules

DGS-6600-48T	48-port 10/100/1000Base-T module
DGS-6600-48TS	24-port 10/100/1000Base-T and 24-port SFP module
DGS-6600-48S	48-port SFP module

PoE Modules

DGS-6600-48P	48-port 10/100/1000Base-T PoE module

CPU Modules

DGS-6600-CM	Control module for DGS-6604
DGS-6600-CM-II	Control module for DGS-6604 and DGS-6608

Optional Redundant/Replacement Power Supply Modules

DGS-6600-PWR	850W AC power supply for DGS-6604 and DGS-6608

Replacement Fan Tray

DGS-6600-FAN	Smart fan module for DGS-6604

Model		DGS-6604-SK	DGS-6608-SK
Interfaces	Fast Ethernet		
	Gigabit Ethernet	3 Slots available for any combination of Ports 1 Slot for CPU Module	6 Slots available for any combination of Ports 2 Slot for CPU Module
	SFP Slots		
	Combo Gigabit/SFP Slots		
	10GbE Slots		
General Features	Stackability		
	Stacking Speed (per Port)		
	Switching Capacity	576 Gbps	1.152 Tbps
	Forwarding Mode	Store-and-Forward	
	Packet Buffer Memory	2 M	
	MAC Table	32 K per Module	
	Flow Control	802.3x, HOL Blocking Prevention	
	MDI/MDIX	Configurable	
L2 Features	Loop Protection	802.1Q, 802.1w, 802.1s	
	803.2ad Link Aggregation	128 Groups, 8 Ports per Group	
	Port Mirroring	One-to-One, Many-to-One, RX/TX/Both, Flow-Based, RSPAN	
	Loopback Detection	•	
	Cable Diagnostics		
L3 Features	IP Interfaces	4 K	
	Routing Protocols	Static, RIP v1/v2, RIPng, OSPF v2/v3, BGP v4, BGP+*	
	Policy-Based Routing	•	
	Route Balancing	ECMP/WCMP*	
	IPv6 Tunneling	Static, ISATAP, 6to4	
	VRRP	•	
Virtual LAN (VLAN)	VLANs	Static+Dynamic: 4 K	
	GVRP	•	
	Protocol VLAN (802.1v)	•	
	Double VLAN (Q-in-Q)	Port Based / Selective	
Multicasting	Groups	2 K	
	Protocols	IGMP v1 / v2 / v3, PIM-SM, PIM-DM, PIM Spare-Dense	
Quality of Service (QoS)	Standard	802.1p, DSCP	
	Number of Queues	8	
	Mode	Strict / WRR / Strict+WRR / DRR / WDRR	
	CoS Handling	802.1p	
	Bandwidth Control	Port-Based, Flow-Based	
Security	STP Security	BPDU Filtering, Root Restriction	
	Per-Port MAC Limitation	•	
	Static MAC	16	
	Storm Control	Broadcast / Multicast / Unicast	
	IP-MAC-Port Binding	•	
	DHCP Server Screening	•	
	ARP Spoofing Prevention	•*	
	Traffic Segmentation		
	D-Link SafeGuard Engine		
Authentication, Authorisation and Accounting (AAA)	802.1x Authentication	Port-Based, Host-Based, Dynamic VLAN Assignment	
	Web-Based Access Control (WAC)		
	MAC-Based Access Control (MAC)		
	Network Access Protection (NAP)	•*	
	Guest VLAN	•	
	Switch Access	RADIUS / TACACS+, 3-Level User Account	
Access Control Lists (ACL)	Rules	(number of entries depending on installed Modules)	
	ACL Handling	VLAN ID, 802.1p, MAC, IP, IPv6, DSCP, Port, Protocol	
	Time-Based ACL	•	
Power over Ethernet	Standard	802.3af	
	PoE Ports	48-Port PoE Module (DGS-6600-48P)	
	PoE Budget	586-2217W (dependent on number of DGS-6600-PWR installed)	
	Time-Based PoE	•	
Management	Switch Access	Web GUI, Telnet, Console	
	sFlow	•	
	SNMP	v1 / v2c / v3	
	DHCP	Server, Client, Relay (IPv4, IPv6)	
	RMON	•	
	TFTP Client	•	
	Syslog	•	
Physical and Environment	Power Supply	Internal, Redundant	
	Max. Power Consumption	(Depending on Installed Modules)	
	Power Saving Technology		
	Operating Temperature	0 to 50°C	
	Operating Humidity	10% to 90% RH Non-condensing	
	Dimensions (W x D x H)	484 x 470 x 280 mm	445x470x500 mm
	Mean Time Between Failures (MTBF)	(Depending on Installed Modules)	
Modules / Transceivers	10GbE SFP+ Modules	DEM-431XT, DEM-431XT-DD, DEM-432XT, DEM-432XT-DD, DEM-433XT	
	10GbE XFP Transceivers	DEM-421XT, DEM-422XT, DEM-423XT	
	SFP Transceivers	DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT	
	WDM SFP Transceivers	DEM-331T, DEM-331R	

* Implemented in future firmware upgrade

Layer 3 10GbE Stackable* Managed Switches

DXS-3600 Series

D-Link's DXS-3600 Series Layer 3 Stackable* 10GbE Managed Switch consists of new compact, high-peformance switches that feature wire speed 10-Gigabit Ethernet switching, routing, and very low latency. The 1U height and selectable front-to-back or back-to-front air flow make the DXS-3600 Series suitable for enterprise and campus aggregation network environments. The DXS-3600 Series switches have 24 or 8 fixed 10 GbE SFP+ ports and can accommodate more ports with the addition of an expansion module. The expansion modules not only provide extra 10G SFP+ ports, but also increase the flexibility of 120G stacking, or low-cost 10GBASE-T connections for different applications.

- 1x 10/100/1000Base-T Ethernet port for out-of-band remote management
- Fast performance with up to 960 Gbps switching capacity
- 24 fixed SFP+ 10G ports
- 1x RJ-45 console port for out-of-band local management
- Access control list
- Port security
- Traffic segmentation
- Broadcast/multicast/unicast storm control
- DoS attack prevention
- OSPF/BGP
- Three Colour Marker – classifying network traffic for QoS
- Web-based GUI
- Telnet
- Command Line Interface (CLI)
- SSH
- SNMP & RMON
- LLDP/LLDP-MED
- L2/L3/L4 multi-layer access control lists
- 802.1x user authentication via TACACS+ and RADIUS servers
- Saves energy and increases the product's lifespan

DXS-3600-16S

- 10GbE SFP+ port x 8
- Open expantion slot x 1
- Switching capacity of up to 480 Gbps
- Hot-swappable power modules for power redundancy and load sharing
- Hot-swappable fan trays with airflow control provide cooling redundancy

DXS-3600-32S

- 10GbE SFP+ port x 24
- Open expansion slot x 1
- Switching capacity of up to 960 Gbps
- Up to 480G stacking bandwidth with four devices functioning together as one
- Hot-swappable power modules for power redundancy and load sharing
- Hot-swappable fan trays with airflow control provide cooling redundancy

Optional Products

Optional Software Image Upgrade Licenses

DXS-3600-32S-SE	DXS-3600-32S Standard to Enhanced Image Upgrade License

Optional Expension Modules

DXS-3600-EM-4XT	4 Ports 10GBASE-T Module
DXS-3600-EM-8T	8 Ports 10/100/1000BASE-T Module
DXS-3600-EM-Stack	2 Ports 120G CXP Stacking Module (for DXS-3600-32S only)

Optional Redundant/Replacement Power Supplies

DXS-3600-PWR-FB	300W AC power supply with front-to-back airflow

Optional Redundant/Replacement Fan Tray

DXS-3600-FAN-FB	Fan module with front-to-back airflow

Optional 120G Stacking Cable

DEM-CB50CXP	DXS-3600-32S stacking cable for use with DXS-3600-EM-Stack

Optional 10 Gbps SFP+ Direct Attach Stacking Cables

DEM-CB100S	10-GbE SFP+ 1 m Direct Attach Stacking Cable
DEM-CB300S	10-GbE SFP+ 3 m Direct Attach Stacking Cable

Optional Management Software

DV-600S	D-View 6.0 Network Management Software (standard edition)
DV-600P	D-View 6.0 Network Management Software (professional sdition)

* Physical stacking only available on DXS-3600-32S

Model		DXS-3600 -32S	DXS-3600-16S
Interfaces	10 Gigabit Ethernet SFP+	24	8
	Expansion Slot	1	
General Features	Stackability	Virtual stacking of up to 32 units., physical stacking of up to 4 units	Virtual stacking of up to 32 units.
	Stacking speed (per Port)	240 Gbps (full duplex)	
	Switching Capacity	960 Gbps	480Gbps
	Forwarding Mode	714.28 Mpps	357 .14Mpps
	Packet Buffer Memory	9 MB	
	MAC Table	128k	
	Flow Control	802.3x, HOL Blocking Prevention	
L2 Features	803.2ad Link Aggregation	Max 16 Groups per device , 12 ports per group	
	Port Mirroring	One-to-one, Many-to-one,Mirrioring for Tx/Rx/Both, 4 Mirroring groups	
	Flow Mirroring	One-to-One, Many-to-One ,Mirroring for Rx , 4 mirroring groups	
	Jumbo Frame	Up to 12,000 Bytes	
L3 Features	ARP	512 Static ARP	
	IP Interface	Supports 256 interfaces	
	Default Routing	•	
	Static Routing	Max. 1K IPv4 entries, Supports route distribution, Supports secondary route, Supports equal Cost/weighted Cost, multi-path route	
Virtual LAN (VLAN)	VLANs	Up to 4k static VLANS	
	GVRP	Up to 4k dynamics VLANS	
	Subnet -based VLAN	•	
	Double VLAN (Q-in-Q)	Port-based, Selective	
	Port-based VLAN	•	
	MAC- based VLAN	•	
	VLAN Group	Max4K Static VLAN Groups , Max 4094 VIDs	
Multicasting	Groups	2 K	
	Protocols	IGMP v1 / v2 / v3, PIM-SM, PIM-DM, PIM Spare-Dense, PIM-SSM, DVMRP v3, MLD v1	
Quality of Service (QoS)	Standard	802.1p	
	No. of Queues	8 per port	
	Mode	Strict +WRR	
	CoS Handling	802.1p Priority Queues ,DSCP, VLAN, MAC address, IP address, IPv6 Traffic class, IPv6 flow label ,TCP/UDP port	
	Bandwidth Control	Port-based (Ingress/Egress, min. granularity 8 Kb/s) Flow-based (Ingress/Egress, min. granularity 8 Kb/s) Per queue bandwidth control (min. granularity 8 Kb/s)	
Security	STP Security		
	Per-Port MAC Limitation	Up to 12K addresses per port/system	
	Static MAC		
	Storm Control	Broadcast /Multicast/ Unicast	
	IP-MAC-Port Binding	ARP inspection, IP inspection, DHCP Snooping	
	DHCP Server Screening	•	
	ARP Spoofing Prevention	Max 64 entries	
	Traffic Segmentation	•	
	D-Link SafeGuard Engine	•	
Authentication, Authorisation and Accounting (AAA)	802.1x Authentication	•	
	Guest VLAN	Port-based, Host -based	
	Switch Access		
Access Control Lists (ACL)	Max ACL entries	1792 ingress ACL rule, 1k egress ACL rule, 1K VLAN ACL rules	
	Time-Based ACL	802.1p priority,VLAN,MAC address,Ether type,IP address,DSCP,Protocol type,TCP/UDP port number ,IPv6 Traffic class and flow lable	
Management	Web-based GUI	•	
	Command Line Interface (CLI)	•	
	Telnet	•	
	SNMP	•	
	SSH	•	
	RMON	•	
	RADIUS/TACACS+	•	
	TFTP Client	•	
	LLDP/LLDP-MED	•	
Physical and Environment	Power Supply	Internal	
	Max. Power Consumption	116.8 W	74.3 W
	Power Saving Technology		
	Number of Fans	3	
	Operating Temperature	0 to 45℃	
	Operating Humidity	0% to 95% RH Non-condensing	
	Dimensions (W x D x H)	440 x 506 x 44 mm	
	Mean Time Between Failures (MTBF)	134,330 hours	
Modules / Transceivers	10GbE SFP+ Modules	DEM-431XT, DEM-431XT-DD, DEM-432XT, DEM-432XT-DD, DEM-433XT	
	SFP Transceivers	DEM-210, DEM-211DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT	
	WDM SFP Transceivers	DEM-331T, DEM-331R	

xStack Layer 3 Gigabit Stackable Managed

DGS-3620 Series

The xStack DGS-3620 Series of next generation Gigabit Layer 3 Managed switches deliver performance, flexibility, security, multi-layer QoS and access control, along with redundant power solutions for businesses. With high Gigabit port densities, Gigabit SFP and 10-Gigabit SFP+ support, and advanced software solutions, these switches can act as either departmental access layer devices or core switches to form a multilevel network structured with backbone and centralised high-speed servers. Service providers can take advantage of the high SFP density switches to structure the cores of Fibre to the Building (FTTB) networks that they extend to the subscriber's sites.

- Physical stack of up to 12 units, 576 Gigabit ports
- Up to 80 Gbps full-duplex stacking bandwidth
- Optional external redundant power supply
- 802.1p priority queues/multi-layer CoS
- Loopback Detection (LBD)
- L2/L3/L4 multi-layer access control
- Virtual stack of up to 32 units using Single IP Management (SIM)
- 802.1X guest VLAN
- IP multicast support for bandwidth-intensive applications
- SSH/SSL support
- Flexible software options with standard Image (SI) and Enhanced Image (EI) for advanced features
- PoE/PoE+ versions available
- Telnet
- Command Line Interface (CLI)
- Web-based GUI
- RMON support
- Traffic segmentation
- Supports Microsoft NAP
- D-Link Safeguard Engine

Optional Accessories

Optional Software Image Upgrade Licenses

DGS-3620-28TC-SE-LIC	DGS-3620-28TC standard to enhanced image upgrade license
DGS-3620-28SC-SE-LIC	DGS-3620-28SC standard to enhanced image upgrade license
DGS-3620-28PC-SE-LIC	DGS-3620-28PC standard to enhanced image upgrade license
DGS-3620-52T-SE-LIC	DGS-3620-52T standard to enhanced image upgrade license
DGS-3620-52P-SE-LIC	DGS-3620-52P standard to enhanced image upgrade license

Optional 10 Gbps SFP+ Direct Attach Stacking Cables

DEM-CB100S	10GbE SFP+ 1m direct attach stacking cable
DEM-CB300S	10GbE SFP+ 3m direct attach stacking cable

Optional Redundant Power Supplies

DPS-500	140W redundant power supply for DGS-3620-28TC, DGS-3620-28SC and DGS-3620-52T
DPS-700	589W redundant power supply For DGS-3620-28PC and DGS-3620-52P

Optional Management Software

DV-600S	D-View 6.0 Network Management Software (standard edition)
DV-600P	D-View 6.0 Network Management Software (professional edition)

DGS-3620-28TC

- 10/100/1000BASE-T port x 20
- Combo 10/100/1000BASE -T/SFP port x 4
- 10GbE SFP+ port x 4

DGS-3620-28SC

- SFP port x 20
- Combo 10/100/1000BASE -T/SFP port x 4
- 10GbE SFP+ port x 4

DGS-3620-28PC

- 10/100/1000BASE-T PoE port x 20
- Combo 10/100/1000BASE -T PoE/SFP port x 4
- 10GbE SFP+ port x 4
- 802.3af and 802.3at PoE/PoE+ support
- 370W PoE power budget (760W with DPS-700 RPS)

DGS-3620-52T

- 10/100/1000BASE-T port x 48
- 10GbE SFP+ port x 4

DGS-3620-52P

- 10/100/1000BASE-T PoE port x 48
- 10GbE SFP+ port x 4
- 802.3af and 802.3at PoE/PoE+ support
- 370W PoE power budget (760W with DPS-700 RPS)

Model		DGS-3620-28TC	DGS-3620-28SC	DGS-3620-28PC	DGS-3620-52T	DGS-3620-52P
Interfaces	Fast Ethernet					
	Gigabit Ethernet	20		20	48	48
	1GbE SFP Slots		20			
	Combo 10/100/1000BASE-T/SFP Slots	4	4	4		
	10GBE SFP+ Slots	4	4	4	4	4
General Features	Stackability	Virtual stacking of up to 32 units, physical stacking up to 12 units				
	Stacking Speed	20 Gbps per port, up to 80 Gbps (full duplex)				
	Switching Capacity	128 Gbps	128 Gbps	128 Gbps	176 Gbps	176 Gbps
	Forwarding Mode	Store-and-forward				
	Packet Buffer Memory	2MB				
	MAC Table	32K Entries				
	Flow Control	802.3x, HOL Blocking Prevention				
	MDI/MDIX	Configurable				
L2 Features	Loop Protection	802.1Q, 802.1w, 802.1s, ERPS				
	803.2ad Link Aggregation	Max. 32 Groups per Device. 8 Gigabit Ports or 2 10 Gigabit Ports per Group				
	Port Mirroring	One-to-One, Many-to-One, Flow Based, RSPAN				
	Loopback Detection	•				
	Cable Diagnostics	•				
L3 Features	IP Interfaces	256				
	Routing Protocols	Static, RIP v1/v2, RIPng*, OSPF v2, OSPF v3*, BGP v4*, BGP+ v4*				
	Policy-Based Routing	•				
	Route Balancing	ECMP/WCMP				
	IPv6 Tunneling	Static*, ISATAP*, GRE*, 6to4*				
	VRRP	•				
Virtual LAN (VLAN)	VLANs	Static, 4 K, Dynamic: 255				
	GVRP	•				
	Protocol VLAN (802.1v)	•				
	Double VLAN (Q-in-Q)	Port-based / Selective				
Multicasting	Groups	2K				
	Protocols	IGMP V1 / V2 / V3, PIM-SM, PIM-SM v6*, PIM-DM, PIM Spare-Dense, DVMRP v3*				
Quality of Service (QoS)	Standard	802.1p				
	Number of Queues	8				
	Mode	Strict / WRR/ Strict+WRR/WRED				
	CoS Handling	Switch Port, VLAN ID, 802.1p, MAC, IPv4, IPv6, DSCP, Port, Protocol, IPv6 Traffic Class, IPv6 Flow Label, Payload (User-Defined)				
	Bandwidth Control	Port-Based, Flow-Based				
Security	STP Security	BPDU Filtering, Root Restriction				
	Per-Port MAC Limitation	•				
	Static MAC	16				
	Storm Control	Broadcast / Multicast / Unicast				
	IP-MAC-Port Binding	500 Entries				
	DHCP Spoofing Prevention	•				
	ARP Spoofing Prevention	•				
	Traffic Segmentation	•				
	D-Link SafeGuard Engine	•				
Authentication, Authorisation and Accounting (AAA)	802.1x Authentication	Port-Based, Host-Based, Dynamic VLAN Assignment				
	Web-Based Access Control (WAC)	Port-Based, Host-Based, Dynamic VLAN Assignment				
	MAC-Based Access Control (MAC)	Port-Based, Host-Based, Dynamic VLAN Assignment				
	Network Access Protection (NAP)	802.1x NAP, DHCP NAP				
	Guest VLAN	•				
	Switch Access	RADIUS / TACACS+, 4-Level User Account				
Access Control Lists (ACL)	Rules	Ingress: 6 profiles, 256 rules per profile, Egress: 4 profiles, 128 rules per profile				
	ACL Handling	Switch Port, VLAN ID, 802.1p, MAC, IPv4, IPv6, DSCP, Port, Protocol, IPv6 Traffic Class, IPv6 Flow Label, Payload (User-Defined)				
	Time-Based ACL	•				
Power over Ethernet	Standard			802.3af, 802.3at		802.3af, 802.3at
	PoE Ports			24		48
	PoE Budget			370 W (760 W with DPS-700 RPS)		370 W (760 W with DPS-700 RPS)
	Time-Based PoE			•		•
Management	Switch Access	Web GUI, Telnet				
	sFlow	•				
	SNMP	V1 / V2c / V3				
	DHCP	Server, Client, Relay (IPv4, IPv6)				
	RMON	•				
	TFTP Client	•				
	Syslog	•				
Physical and Environment	Power Supply	Internal				
	Max. Power Consumption	45.1 W	43.4 W	502.2 W	76 W	517.1 W
	Power Saving Technology	Green Ethernet				
	Operating Temperature	0 to 50°C				
	Operating Humidity	10% to 90% RH Non-condensing				
	Dimensions (W x D x H)	441 x 310 x 44 mm	441 x 310 x 44 mm	441 x 310 x 44 mm	441 x 310 x 44 mm	441 x 310 x 44 mm
	Mean Time Between Failures (MTBF)	292,976 Hours	298,263 Hours	236,811 Hours	247,929 Hours	235,645 Hours
Modules / Transceivers	10GbE SFP+ Transceivers	DEM-431XT, DEM-431XT-DD, DEM-432XT, DEM-432XT-DD, DEM-433XT				
	SFP Transceivers	DEM-210, DEM-211, DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT				
	WDM SFP Transceivers	DEM-331T, DEM-331R				

* Enhanced Image (EI) only

xStack Layer 2+ Gigabit Stackable Managed Switches

DGS-3420 Series

The xStack DGS-3420 series of next generation Layer 2+ Gigabit switches delivers performance, flexibility, security, multi-layer QoS, and accessibility, along with redundant power solutions for SMBs and enterprises. With high Gigabit port densities, Gigabit SFP, 10-Gigabit SFP+ support, and advanced software solutions, these switches can act as either departmental access layer devices or aggregation switches to form a multilevel network structured with backbone and centralised high-speed servers. Service providers can take advantage of the high SFP density switches (DGS-3420-28SC) to structure the aggregation of Fiber to the Building (FTTB) networks that are extended to the subscribers' sites.

- Physical stack of up to 12 Units, 576 Gigabit ports
- Up to 40 Gbps full-duplex stacking bandwidth
- Optional external redundant power supply
- Five different models in the series, including PoE/PoE+ versions
- Comprehensive security features, including Microsoft NAP
- Comprehensive IPv6 support
- Multiple functions in a single device: switching, static routing, PoE, eliminating the need of purchasing multiple routers and switches
- Web-based GUI for easy management
- SD card slot to store and restore configuration files
- Green technology - power-saving mode, time-base PoE, Smart Fans

Optional Accessories

Optional 10 Gbps SFP+ Direct Attach Stacking Cables

DEM-CB100S	10-GbE SFP+ 1 m Direct Attach Stacking Cable
DEM-CB300S	10-GbE SFP+ 3 m Direct Attach Stacking Cable

Optional Redundant Power Supplies

DPS-500	140W redundant power supply for DGS-3420-28TC, DGS-3420-28SC and DGS-3420-52T
DPS-700	589W redundant power supply For DGS-3420-28PC and DGS-3420-52P

Optional Management Software

DV-600S	D-View 6.0 Network Management Software (standard edition)
DV-600P	D-View 6.0 Network Management Software (professional edition)

DGS-3420-28TC

- 10/100/1000BASE-T port x 20
- Combo 1000BASE -T/SFP port x 4
- 10GbE SFP+ port x 4

DGS-3420-28SC

- SFP port x 20
- Combo 1000BASE -T/SFP port x 4
- 10GbE SFP+ port x 4

DGS-3420-28PC

- 10/100/1000BASE-T PoE port x 20
- Combo 10/100/1000BASE -T PoE/SFP port x 4
- 10GbE SFP+ port x 4
- 802.3af and 802.3at PoE/PoE+ support
- 370W PoE power budget (760W with DPS-700 RPS)

DGS-3420-52T

- 10/100/1000BASE-T port x 48
- 10GbE SFP+ port x 4

DGS-3420-52P

- 10/100/1000BASE-T PoE port x 48
- 10GbE SFP+ port x 4
- 802.3af and 802.3at PoE/PoE+ support
- 370W PoE power budget (760W with DPS-700 RPS)

Model		DGS-3420-28TC	DGS-3420-28SC	DGS-3420-28PC	DGS-3420-52T	DGS-3420-52P
Interfaces	Fast Ethernet					
	Gigabit Ethernet	20		20	48	48
	SFP Slots		20			
	Combo 10/100/1000BASE-T/SFP Slots	4	4	4		
	10GbE SFP+ Slots	4	4	4	4	4
General Features	Stackability	Virtual stacking of up to 32 units, physical stacking up to 12 units				
	Stacking Speed (per Port)	20 Gbps (full duplex)				
	Switching Capacity	128 Gbps	128 Gbps	128 Gbps	176 Gbps	176 Gbps
	Forwarding Mode	Store-and-Forward				
	Packet Buffer Memory	2 MB				
	MAC Table	16 K				
	Flow Control	802.3x, HOL Blocking Prevention				
	MDI/MDIX	Configurable				
L2 Features	Loop Protection	802.1Q, 802.1w, 802.1s, ERPS				
	803.2ad Link Aggregation	32 Groups, 8 Gb Ports per Group / 2 10GbE Ports per Group				
	Port Mirroring	One-to-One, Many-to-One, RX/TX/Both, Flow-Based, RSPAN				
	Loopback Detection	•				
	Cable Diagnostics	•				
L3 Features	IP Interfaces	256				
	Routing Protocols	Static, Rip v1/v2, RIPng				
	Policy-Based Routing	Based on ACL				
	Route Balancing					
	IPv6 Tunneling	Static, ISATAP, 6to4				
	VRRP	•				
Virtual LAN (VLAN)	VLANs	Static: 4 K, Dynamic: 255				
	GVRP	•				
	Protocol VLAN (802.1v)	•				
	Double VLAN (Q-in-Q)	Port-Based / Selective				
Multicasting	Groups	960 (IGMP), 480 (MLD)				
	Protocols	IGMP v1/v2/v3, MLD v1, v2 Snooping				
Quality of Service (QoS)	Standard	802.1p, DSCP				
	Number of Queues	8				
	Mode	Strict / WRR / Strict+WRR				
	CoS Handling	Switch Port, VLAN ID, 802.1p, MAC, IP, IPv6, DSCP, Port, Protocol, IPv6 Traffic Class, IPv6 Flow Label, Payload (User-Defined)				
	Bandwidth Control	Port-Based, Flow-Based				
Security	STP Security	BPDU Filtering, Root Restriction, UDLD				
	Per-Port MAC Limitation	•				
	Static MAC	16				
	Storm Control	Broadcast / Multicast / Unicast				
	IP-MAC-Port Binding	500 Entries				
	DHCP Spoofing Prevention	•				
	ARP Spoofing Prevention	•				
	Traffic Segmentation	•				
	D-Link SafeGuard Engine	•				
Authentication, Authorisation and Accounting (AAA)	802.1x Authentication	Port-Based, Host-Based, Dynamic VLAN Assignment				
	Web-Based Access Control (WAC)	Port-Based, Host-Based, Dynamic VLAN Assignment				
	MAC-Based Access Control (MAC)	Port-Based, Host-Based, Dynamic VLAN Assignment				
	Network Access Protection (NAP)	802.1x, NAP, DHCP NAP				
	Guest VLAN	•				
	Switch Access	RADIUS / TACACS+, 3-Level User Account				
Access Control Lists (ACL)	Rules	Ingress ACL: 6 Profiles, 256 Rules Per Profile / Egress ACL: 4 Profiles, 128 Rules Per Profile				
	ACL Handling	Ether Type, VLAN ID, 802.1p, MAC, IP, IPv6, DSCP, Port, Protocol, IPv6 Traffic Class, IPv6 Flow Label, Payload (User-Defined)				
	Time-Based ACL	•				
Power over Ethernet	Standard			802.3af and 802.3at		802.3af and 802.3at
	PoE Ports			24		48
	PoE Budget			370 W (760 W with DPS-700 RPS)		370 W (760 W with DPS-700 RPS)
	Time-Based PoE			•		•
Management	Switch Access	Web GUI, Telnet, Console				
	sFlow	•				
	SNMP	v1 / v2c / v3				
	DHCP	Server, Client, Relay (IPv4, IPv6)				
	RMON	•				
	TFTP Client	•				
	Syslog	•				
Physical and Environment	Power Supply	Internal				
	Max. Power Consumption	58.8 W	60.2 W	478.0 W	81.0 W	505.4 W
	Power Saving Technology	Green Ethernet				
	Operating Temperature	0 to 50°C				
	Operating Humidity	10% to 90% RH Non-condensing				
	Dimensions (W x D x H)	441 x 310 x 44 mm	441 x 310 x 44 mm	441 x 310 x 44 mm	441 x 310 x 44 mm	441 x 310 x 44 mm
	Mean Time Between Failures (MTBF)	287763 Hours	300371 Hours	206190 Hours	255608 Hours	202462 Hours
Modules / Transceivers	10GbE SFP+ Transceivers	DEM-431XT, DEM-431XT-DD, DEM-432XT, DEM-432XT-DD, DEM-433XT				
	SFP Transceivers	DEM-210, DEM-211, DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT				
	WDM SFP Transceivers	DEM-331T, DEM-331R				

xStack Layer 2 Fast Ethernet Managed Switches

DES-3200 Series

The DES-3200 Series is a member of D-Link's Layer 2 managed switch family designed for the ETTX, FTTX, and enterprise markets. The DES-3200 Series provides 8/16/24, or 48 10/100 Mbps Fast Ethernet connections and various SFP or combo Gigabit/SFP ports uplink options. The DES-3200-10/18 comes in a 9/11-inch compact size and incorporates a fanless design suitable for desktop, telecom cabinet, or distribution box deployment. The DES-3200-28 and 52 models are 1U 19" rack mount size and provide 24/48 copper connections on Fast Ethernet with the beneficial design of 2/4 Gigabit/SFP Combo ports which provide up to 4 Gbps uplink bandwidth or dual Ethernet ring topology support. The DES-3200-28P/52P are IEEE 802.3af and IEEE 802.3at Power over Ethernet (PoE) compliant switches and provide 15.4 W per port and up to 30 W in the first four/eight ports. The PoE/PoE+ powers devices such as video IP phones, wireless access points, and IP cameras directly through Ethernet cables which makes the deployment of the network much easier. All switches of the DES-3200 series feature embedded 2 or 4 Gigabit SFP uplinks, which provides flexible network topology choices such as ring, tree, or mixed.

- D-Link Single IP Management (virtual stacking)
- Internet Group Multicast Protocol (IGMP) snooping
- Multicast Listener Discovery (MLD) Snooping
- Ethernet Ring Protection Switching (ERPS)
- Gratuitous Address Resolution Protocol (ARP)
- 802.3ah Ethernet Link OAM
- 802.1v Protocol VLAN
- VLAN trunking
- Asymmetric VLAN
- Double VLAN (Q-in-Q)
- Selective Q-in-Q
- IGMP Snooping Multicast (ISM) VLAN
- Quality of Service (QoS)
- Access Control List (ACL)
- CPU Interface Filtering
- 802.1ag Connectivity Fault Management (CFM)
- Broadcast/Multicast/Unicast Storm Control
- Traffic Segmentation
- D-Link Safeguard Engin
- IP-MAC-Port Binding (IMPB)
- ARP Spoofing Prevention
- BPDU Attack Protection
- DHCP Server Screening
- 802.1X Port-Based Access Control
- 802.1X Host-Based Access Control
- Per Queue Bandwidth Control

Optional Accessories

Optional Management Software

DV-600S	D-View 6.0 Network Management Software (standard edition)
DV-600P	D-View 6.0 Network Management Software (professional edition)

DES-3200-10

- 10/100BASE-TX port x 8
- Combo 1000BASE-T/SFP port x 1
- SFP port x 1
- Fanless
- 9-inch, 1U desktop

DES-3200-18

- 10/100BASE-TX port x 16
- Combo 1000BASE-T/SFP port x 1
- SFP port x 1
- Fanless
- 11-inch, 1U desktop

DES-3200-28

- 10/100BASE-TX port x 24
- Combo 1000BASE-T/SFP port x 2
- 10/100/1000 BASE-T port x2
- Fanless
- 19-inch, 1U rack-mountable

DES-3200-28P

- 10/100BASE-TX PoE port x 24
- Combo 1000BASE-T/SFP port x 2
- 10/100/1000 BASE-T port x2
- 802.3af and 802.3at PoE/PoE+ support
- 188W PoE power budget
- Smart fan
- 19-inch, 1U rack-mountable

DES-3200-52

- 10/100BASE-TX port x 48
- Combo 1000BASE-T/SFP port x 2
- 10/100/1000 BASE-T port x2
- Smart fan
- 19-inch, 1U rack-mountable

DES-3200-52P

- 10/100BASE-TX PoE port x 48
- Combo 1000BASE-T/SFP port x 2
- SFP port x 2
- 802.3af and 802.3at PoE/PoE+ support
- 370W PoE power budget
- Smart fan
- 19-inch, 1U rack-mountable

Model		DES-3200-10	DES-3200-18	DES-3200-28	DES-3200-28P	DES-3200-52	DES-3200-52P
Interfaces	Fast Ethernet	8	16	24		48	
	Gigabit Ethernet						
	SFP Slots	1	1	2	2	2	2
	Combo Gigabit/SFP Slots	1	1	2	2	2	2
	10GbE Slots						
General Features	Stackability	Virtual stacking of up to 32 units					
	Stacking Speed (per Port)						
	Switching Capacity	5.6 Gbps	7.2 Gbps	12.8 Gbps		17.6 Gbps	
	Forwarding Mode	Store-and-Forward					
	Packet Buffer Memory	1.5 MB					
	MAC Table	16 k					
	Flow Control	802.3x, HOL Blocking Prevention					
	MDI/MDIX	Configurable					
L2 Features	Loop Protection	802.1Q, 802.1w, 802.1s, ERPS					
	803.2ad Link Aggregation	5 Groups 8 Ports per Group	9 Groups 8 Ports per Group	14 Groups 8 Ports per Group		26 Groups 8 Ports per Group	
	Port Mirroring	One-to-One, Many-to-One, RX/TX/Both, Flow-Based					
	Loopback Detection	•					
	Cable Diagnostics	•					
Virtual LAN (VLAN)	VLANs	Static: 4 K, Dynamic: 255					
	GVRP	•					
	Protocol VLAN (802.1v)	•					
	Double VLAN (Q-in-Q)	•					
Multicasting	Groups	1 K					
	Protocols	IGMP v1 / v2 / v3, MLD v1, v2 Snooping					
Quality of Service (QoS)	Standard	802.1p, DSCP					
	Number of Queues	8					
	Mode	Strict / WRR					
	CoS Handling	Switch Port, VLAN ID, 802.1p, MAC, IP, IPv6, DSCP, Port, Protocol, Payload (User-Defined)					
	Bandwidth Control	Port-Based, Flow-Based					
Security	STP Security	BPDU Filtering, Root Restriction, UDLD					
	Per-Port MAC Limitation	•					
	Static MAC	64					
	Storm Control	Broadcast / Multicast / Unicast					
	IP-MAC-Port Binding	500 Entries					
	DHCP Spoofing Prevention	•					
	ARP Spoofing Prevention	•					
	Traffic Segmentation	•					
	D-Link SafeGuard Engine	•					
Authentication, Authorisation and Accounting (AAA)	802.1x Authentication	Port-Based, Host-Based, Dynamic VLAN Assignment					
	Web-Based Access Control (WAC)	Port-Based, Host-Based					
	MAC-Based Access Control (MAC)	Port-Based, Host-Based, Dynamic VLAN Assignment					
	Network Access Protection (NAP)	802.1x NAP, DHCP NAP					
	Guest VLAN	•					
	Switch Access	RADIUS / TACACS+, 3-Level User Account					
Access Control Lists (ACL)	Rules	512					
	ACL Handling	Ether Type, VLAN ID, 802.1p, MAC, IP, IPv6, DSCP, Port, Protocol, Payload (User-Defined)					
	Time-Based ACL	•					
Management	Switch Access	Web GUI, Telnet, Console					
	sFlow						
	SNMP	v1 / v2c / v3					
	DHCP	Client, Relay (IPv4, IPv6)					
	RMON	•					
	TFTP Client	•					
	Syslog	•					
Physical and Environment	Power Supply	Internal					
	Max. Power Consumption	13.54 W	15.44 W	20.83 W	250.78 W	33.38 W	417.6 W
	Power Saving Technology						
	Operating Temperature	-5 to 50°C					
	Operating Humidity	10-90% RH Non-condensing					
	Dimensions (W x D x H)	228.5 x 195 x 44 mm	280.5 x 180 x 44 mm	441 x 210 x 44 mm	441 x 308 x 44 mm		
	Mean Time Between Failures (MTBF)	873,750 Hours	743,115 Hours	668,867 Hours	216,780 Hours	440,704 Hours	189,396 Hours
Modules/ Transceivers	SFP Transceivers	DEM-210, DEM-211, DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT					
	WDM SFP Transceivers	DEM-331T, DEM-331R					

xStack Layer 2 Gigabit Stackable Managed

DGS-3120 Series

The DGS-3120 Series is the enhanced L2 managed stackable solution designed to connect end-users in a secure SMB or enterprise network. The DGS-3120 Series targets businesses that require a high level of network security and maximum uptime. Its comprehensive security features and PoE support make it suitable for any business environment where manageability, reliability and high port densities are necessary at an affordable price. Each of the five switch models in this series is embedded with two different software images - Standard Image (SI) and Enhanced Image (EI). The Standard Image provides sophisticated features for businesses such as advanced Quality of Service (QoS), traffic shaping, L2 multicasting and robust security features. The Enhanced Image supports ERPS, Double VLAN (Q-in-Q), Ethernet OAM, Static Route, IMPB, sFlow, IPv6 features which are suitable for the next generation IPv6 networks or triple play applications. With enhanced network reliability and comprehensive security, as well as proactive and effective network management and future-proof IPv6 support, the DGS-3120 Series is designed to scale as your network requirement grows.

- Built-in 10 GbE CX4 stacking/uplink ports
- 40Gb stacking bandwidth
- Stackable up to 6 units
- Up to 288 Gigabit ports in a single stack
- PoE/PoE+ versions available
- Optional redudant power supply
- Smart fans
- 19-inch, 1U rack-mountable
- Comprehensive security
- IPv6 ready
- Supports Microsoft NAP
- sFlow
- SD card slot for configuration and system images
- Easy to configure through Web interface
- Power saving technology

Optional Accessories

Optional Software Image Upgrade Licenses

DGS-3120-24TC-SE-LIC	DGS-3120-24TC Standard to Enhanced Image Upgrade License
DGS-3120-24SC-SE-LIC	DGS-3120-24SC Standard to Enhanced Image Upgrade License
DGS-3120-24PC-SE-LIC	DGS-3120-24PC Standard to Enhanced Image Upgrade License
DGS-3120-48TC-SE-LIC	DGS-3120-48TC Standard to Enhanced Image Upgrade License
DGS-3120-48TP-SE-LIC	DGS-3120-48TP Standard to Enhanced Image Upgrade License

Optional 10Gbps Stacking and Interconnect Cables

DEM-CB50	50 cm Stacking Cable
DEM-CB100	1 cm Stacking Cable
DEM-CB300	3 cm Stacking Cable
DEM-CB50ICX	50 cm Interconnect Cable

Optional Redundant Power Supplies

DPS-200	60W redundant power supply for DGS-3120-24TC and DGS-3120-24SC
DPS-500	140W redundant power supply for DGS-3120-48TC
DPS-700	589W redundant power supply For DGS-3120-24PC and DGS-3120-48PC

Optional Management Software

DV-600S	D-View 6.0 Network Management Software (standard edition)
DV-600P	D-View 6.0 Network Management Software (professional edition)

DGS-3120-24TC

- 10/100/1000BASE-T port x 20
- Combo 1000BASE -T/SFP port x 4
- 10GbE CX4 port x 2

DGS-3120-24PC

- SFP port x 16
- Combo 10/100/1000BASE -T/SFP port x 8
- 10GbE CX4 port x 2

DGS-3120-24SC

- 10/100/1000BASE-T PoE port x 20
- Combo 1000BASE -T/SFP port x 4
- 10GbE CX4 port x 2
- 802.3af and 802.3at PoE/PoE+ support
- 370W PoE power budget (760W with DPS-700 RPS)

DGS-3120-48TC

- 10/100/1000BASE-T port x 44
- Combo 10/100/1000BASE -T/SFP port x 4
- 10GbE CX4 port x 2

DGS-3120-48PC

- 10/100/1000BASE-T PoE port x 44
- Combo 1000BASE -T/SFP port x 4
- 10GbE CX4 port x 2
- 802.3af and 802.3at PoE/PoE+ support
- 370W PoE power budget (760W with DPS-700 RPS)

Model		DGS-3120-24TC	DGS-3120-24PC	DGS-3120-24SC	DGS-3120-48TC	DGS-3120-48PC
Interfaces	Fast Ethernet					
	Gigabit Ethernet	20	20		44	44
	SFP Slots			16		
	Combo Gigabit/SFP Slots	4	4	8	4	4
	10GbE Slots					
General Features	Stackability	Virtual stacking of up to 32 units, physical stacking up to 6 units				
	Stacking Speed (per system)	40 Gbps (full duplex)				
	Switching Capacity	88 Gbps	88 Gbps	88 Gbps	136 Gbps	136 Gbps
	Forwarding Mode	Store-and-Forward				
	Packet Buffer Memory	2 M				
	MAC Table	16 K				
	Flow Control	802.3x, HOL Blocking Prevention				
	MDI/MDIX	Configurable				
L2 Features	Loop Protection	802.1Q, 802.1w, 802.1s, ERPS*				
	803.2ad Link Aggregation	32 Groups 8 Gb Ports per Group				
	Port Mirroring	One-to-One, Many-to-One, RX/TX/Both, RSPAN, Flow-Based				
	Loopback Detection	•				
	Cable Diagnostics	•				
L3 Features	IP Interfaces	16*				
	Routing Protocols	Static*				
	Policy-Based Routing					
	Route Balancing					
	IPv6 Tunneling					
	VRRP					
Virtual LAN (VLAN)	VLANs	4 K				
	GVRP	•				
	Protocol VLAN (802.1v)	•				
	Double VLAN (Q-in-Q)	•*				
Multicasting	Groups	1024				
	Protocols	IGMP v1 / v2 / v3, MLD v1, v2 Snooping				
Quality of Service (QoS)	Standard	802.1p, DSCP				
	Number of Queues	4				
	Mode	Strict / WRR				
	CoS Handling	Switch Port, VLAN ID, 802.1p, MAC, IP, IPv6, DSCP, Port, Protocol, Payload (User-Defined)				
	Bandwidth Control	Port-Based, Flow-Based				
Security	STP Security	BPDU Filtering, Root Restriction				
	Per-Port MAC Limitation	•				
	Static MAC	64				
	Storm Control	Broadcast / Multicast / Unicast				
	IP-MAC-Port Binding	510 Entries*				
	DHCP Spoofing Prevention	•*				
	ARP Spoofing Prevention	•				
	Traffic Segmentation	•				
	D-Link SafeGuard Engine	•				
Authentication, Authorisation and Accounting (AAA)	802.1x Authentication	Port-Based, Host Based, Dynamic VLAN/ACL/QoS Assignment				
	Web-Based Access Control (WAC)	Port-Based, Host Based, Dynamic VLAN/ACL/QoS Assignment				
	MAC-Based Access Control (MAC)	Port-Based, Host Based, Dynamic VLAN/ACL/QoS Assignment				
	Network Access Protection (NAP)	801.1X NAP, DHCP NAP				
	Guest VLAN	•				
	Switch Access	RADIUS / TACACS+, 4-Level User Account				
Access Control Lists (ACL)	Rules	1500				
	ACL Handling	Ether Type, VLAN ID, 802.1p, MAC, IP, IPv6, DSCP, Port, Protocol, Payload (User-Defined)				
	Time-Based ACL	•				
Power over Ethernet	Standard		802.3af, 802.3at			802.3af, 802.3at
	PoE Ports		1-20			1-44
	PoE Budget		370 W (760 W with DPS-700 RPS)			370 W (760 W with DPS-700 RPS)
	Time-Based PoE		•			•
Management	Switch Access	Web GUI, Telnet, Console				
	sFlow	•*				
	SNMP	v1 / v2c / v3				
	DHCP	Client, Relay				
	RMON	•				
	TFTP Client	• (IPv4, IPv6*)				
	Syslog	•				
Physical and Environment	Power Supply	Internal				
	Max. Power Consumption	40.5 W	482.7 W	34.1 W	67.1 W	516.5 W
	Power Saving Technology	Green Ethernet				
	Operating Temperature	0 to 50°C				
	Operating Humidity	10% to 90% RH Non-condensing				
	Dimensions (W x D x H)	440 x 210 x 44 mm	440 x 310 x 44 mm	440 x 210 x 44 mm	440 x 310 x 44 mm	440 x 380 x 44 mm
	Mean Time Between Failures (MTBF)	561,830 Hours	282,541 Hours	516,317 Hours	292,201 Hours	223,006 Hours
Modules / Transceivers	10GbE Modules	DEM-431XT, DEM-431XT-DD, DEM-432XT, DEM-432XT-DD, DEM-433XT				
	SFP Transceivers	DEM-210, DEM-211, DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT,				
	WDM SFP Transceivers	DEM-331T, DEM-331R				

* Enhanced Image (EI) only

Gigabit L2 Managed Switches

DGS-3000 Series

The DGS-3000-10TC is a Layer 2 managed switch product that provides wired Gigabit speed access for metro and campus networks. The DGS-3000-10TC is designed as a 1U rackmount case with IPV6 support suitable for enterprise access or service provider telecom cabinets. It maximises network performance without compromising on reliability and security. Green technology decreases energy costs by reducing power consumption, without compromising on performance.

- Virtual stacking, up to 32 units per virtual stack managed through a single IP address
- 16K MAC Address Table
- 802.3x Flow Control, HOL Blocking Prevention flow control
- Jumbo Frames up to 12K bytes
- BPDU Filtering
- Root Restriction
- Loopback Detection
- Link Aggregation
- Port Mirroring
- 8 queues per port
- DSCP
- 802.1p
- Bandwidth Control
- Queue Handling
- Time-based QoS

Optional Accessories

Optional Management Software

DV-600S	D-View 6.0 Network Management System (Standard Edition)
DV-600P	D-View 6.0 Network Management System (Professional Edition)

DGS-3000-10TC

- 10/100/1000BASE-T port X 8
- Combo 10/100/1000BASE-T/SFP port x 2
- Desktop ,1U rackmount
- Smart Fan

Model		DGS-3000-10TC
Interfaces	Fast Ethernet	
	Gigabit Ethernet	8
	SFP Slots	2
	Combo Gigabit/SFP Slots	
	10GbE Slots	
General Features	Stackability	Virtual stacking (up to 32 devices)
	Stacking Speed (per Port)	
	Switching Capacity	20 Gbps
	Forwarding Mode	Store-and-Forward
	Packet Buffer Memory	14.88 Mpps
	MAC Table	16K
	Flow Control	802.3x Flow Control , HOL Blocking Prevention
	MDI/MDIX	Configurable
L2 Features	Loop Protection	802.1Q, 802.1w, 802.1s, ERPS
	803.2ad Link Aggregation	802.3ad 802.1AX
	Port Mirroring	One-to-One, Many-to-One, Flow-based (ACL) Mirroring
	Loopback Detection	•
	Cable Diagnostics	•
Virtual LAN (VLAN)	VLANs	4 K
	GVRP	•
	Protocol VLAN (802.1v)	•
	Double VLAN (Q-in-Q)	•
Multicasting	Groups	1024
	Protocols	IGMP v1/v2 snopping, v3 awareness, MLD v1, v2 awareness
Quality of Service (QoS)	Standard	DSCP, 802.1p
	No. of Queues	8
	Mode	Strict Priority Queue (SPQ), Weighted Round Robin (WRR), Deficit Round Robin (DRR), SPQ + WRR
	CoS Handling	802.1p Priority Queues ,VLAN ID ,MAC Address , Ether Type ,IPv4/v6 Address, IPv6 Traffic Class ,IPv6 Flow Label ,DSCP, Protocol Type,TCP/UDP Port, User-Defined Packet Content
	Bandwidth Control	Port- Based, Host -Based
Security	STP Security	BPDU Filtering, Root Restriction
	Per-Port MAC Limitation	
	Static MAC	
	Storm Control	•
	IP-MAC-Port Binding	•
	DHCP Server Screening	•
	ARP Spoofing Prevention	•
	Traffic Segmentation	•
	D-Link SafeGuard Engine	•
Management	Switch Access	•
	sFlow	Web GUI, Telnet, Console
	SNMP	•
	DHCP	•
	RMON	•
	TFTP Client	•
	Syslog	•
Physical and Environment	Power Supply	Internal
	Max. Power Consumption	16.5 W
	Power Saving Technology	•
	No of Fans	1
	Operating Temperature	0 to 50°C
	Operating Humidity	10% to 90% RH Non-condensing
	Dimensions (W x D x H)	228.5 x 195 x 44 mm
	Mean Time Between Failures (MTBF)	711565.6 hours
Modules/Transceivers	SFP Transceivers	DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT, DEM-210, DEM-211

Gigabit Stackable Smart Managed Switches

DGS-1510 Series

The DGS-1510 series Gigabit Stackable Smart Managed Switches includes switches with 16, 24 or 48 10/100/1000 Mbps ports plus 2 Gigabit SFP ports and 2 10G SFP+ ports, as well as one 24 10/100/1000 Mbps PoE plus 2 Gigabit SFP ports and 2 10G ports switch. With it's 10G SFP+ ports, the DGS-1510 series is ideal for deployments in the SME/SMB core with its 10G uplinks connecting with servers equipped with 10G port connectivity. For medium to large scale enterprise deployment, it can serve as a good interconnection between the core switch and edge switch.

The DGS-1510 Series Gigabit Stackable Smart Managed Switches includes a PoE-enable switch for businesses looking to power VoIP phones, wireless access points or network cameras. The DGS-1510-28P is a 24-port PoE Switch that provides 24 PoE-enabled ports that can support up to 30 W of power output following the IEEE 802.3at standard. The design allows more flexibility in power allocation for a variety of powered devices with affordable installation costs.

- 10 Gigabit Connectivity
- Physical Stacking via 2 10G ports, stack up to 6 devices.
- Single IP Management (virtual stacking up to 32 units)
- Static Routing
- IPv6 Management Support
- Auto Surveillance VLAN
- Auto Voice VLAN
- Loopback Detection automatically disables a port or VLAN when a loop is detected
- Configurable MDI/MDIX
- LLDP/LLDP-MED
- Access Control List
- D-Link Safeguard Engine
- Port Security
- ARP Spoofing Prevention
- IP-MAC-Port Binding
- DoS Attack Prevention
- D-Link Network Assistant Utility or Multilanguage Web-based GUI
- Built-in SNMP MIB for remote NMS (D-View 6.0)
- Full CLI via console port
- IPv4/IPv6 Stack
- Dual Image
- IEEE 802.3az Energy Efficient Ethernet
- D-Link Green 3.0 power-saving features• D-Link Safeguard Engine

Optional Accessories

Optional 10 Gbps SFP+ Direct Attach Stacking Cables

DEM-CB100S	10-GbE SFP+ 1 m Direct Attach Stacking Cable
DEM-CB300S	10-GbE SFP+ 3 m Direct Attach Stacking Cable

Optional Management Software

DV-600S	D-View 6.0 Network Management Software Standard Edition
DV-600P	D-View 6.0 Network Management Software Professional Edition

DGS-1510-20

- 10/100/1000BASE-T port x 16
- SFP port x 2
- 10GbE SFP+ port x 2
- Smart fans

DGS-1510-28

- 10/100/1000BASE-T port x 24
- SFP port x 2
- 10GbE SFP+ port x 2
- SFP port x 4
- Smart fans

DGS-1510-28P

- 10/100/1000BASE-T PoE port x 24
- SFP port x 2
- 10GbE SFP+ port x 2
- 802.3af and 802.3at PoE/PoE+ support
- 193W PoE power budget
- Smart fans

DGS-1510-52

- 10/100/1000BASE-T port x 48
- SFP port x 2
- 10GbE SFP+ port x 2
- Smart fans

Model		DGS-1510-20	DGS-1510-28	DGS-1510-28P	DGS-1510-52
Interfaces	Fast Ethernet				
	Gigabit Ethernet	16	24	24	48
	SFP Slots	2	2	2	2
	Combo Gigabit/SFP Slots				
	10GbE SFP+ Slots	2	2	2	2
General Features	Stackability	Virtual stacking of up to 32 units, physical stacking up to 6 units			
	Stacking Speed (per Port)	20 Gbps (full duplex)			
	Switching Capacity	76 Gbps	92 Gbps	92 Gbps	140 Gbps
	Forwarding Mode	Store-and-Forward			
	Packet Buffer Memory	1.5 MB			3 MB
	MAC Table	16 K			
	Flow Control	802.3x, HOL Blocking Prevention			
	MDI/MDIX	Configurable			
L2 Features	Loop Protection	802.1D, 802.1w, 802.1s			
	803.2ad Link Aggregation	32 Groups 8 Ports per Group			
	Port Mirroring	One-to-One, Many-to-One, RX/TX/Both			
	Loopback Detection	•			
	Cable Diagnostics	•			
L3 Features	IP Interfaces	8			
	Routing Protocols	Static			
	Policy-Based Routing				
	Route Balancing				
	IPv6 Tunneling				
	VRRP				
Virtual LAN (VLAN)	VLANs	Static: 4 K			
	GVRP	•			
	Protocol VLAN (802.1v)				
	Double VLAN (Q-in-Q)				
Multicasting	Groups	512			
	Protocols	IGMP v1/v2			
Quality of Service (QoS)	Standard	802.1p, DSCP			
	Number of Queues	4			
	Mode	Strict Priority Queue (SPQ), Weighted Round Robin (WRR), Deficit Round Robin (DRR)			
	CoS Handling	802.1p, DSCP			
	Bandwidth Control	Port-Based			
Security	STP Security				
	Per-Port MAC Limitation	•			
	Static MAC	128			
	Storm Control	Broadcast / Multicast / Unicast			
	IP-MAC-Port Binding	512 Entries			
	DHCP Spoofing Prevention	•			
	ARP Spoofing Prevention	•			
	Traffic Segmentation	•			
	D-Link SafeGuard Engine	•			
Authentication, Authorisation and Accounting (AAA)	802.1x Authentication	Port-Based			
	Web-Based Access Control (WAC)				
	MAC-Based Access Control (MAC)				
	Network Access Protection (NAP)				
	Guest VLAN				
	Switch Access	User Account			
Access Control Lists (ACL)	Rules	768			
	ACL Handling	MAC, IP, 802.1p, DSCP/IPV6 Address			
	Time-Based ACL				
Power over Ethernet	Standard			802.3af 802.3at	
	PoE Ports			1-24	
	PoE Budget			193 W	
	Time-Based PoE			•	
Management	Switch Access	Web GUI, Telnet, Console			
	sFlow				
	SNMP	v1 / v2c / v3			
	DHCP				
	RMON	•			
	TFTP Client	•			
	Syslog				
Physical and Environment	Power Supply	Internal			
	Max. Power Consumption	20.3 W	24 W	238.7 W (PoE on) 29 W (PoE off)	38.4 W
	Power Saving Technology	IEEE 802.3az EEE, Green Ethernet			
	Operating Temperature	-5° to 50°C			
	Operating Humidity	0% to 95% RH Non-condensing			
	Dimensions (W x D x H)	280 x 180 x 44 mm	440 x 210 x 44 mm	440 x 250 x 44 mm	440 x 210 x 44 mm
Modules/ Transceivers	10GbE SFP+ Transceivers	DEM-431XT, DEM-431XT-DD, DEM-432XT, DEM-432XT-DD, DEM-433XT			
	SFP Transceivers	DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT			
	WDM SFP Transceivers	DEM-331T, DEM-331R			

Gigabit Smart Managed Switches

DGS-1500 Series

D-Link's DGS-1500 Series Gigabit Smart Mananged Switches are designed for businesses which require functions such as L3 Static Routing and Single IP Management (Virtual Stacking) without upgrading to a managed switch. This series integrates advanced management and security functions that are similar to those of a managed switch, but less complex. The switches feature D-Link Green 3.0 technology which enables significant power savings. Additionally, the DGS-1500-28P's 10/100/1000 Mbps ports are PoE-enabled, offering ease-of-use and green features like time-based PoE, which enables the power to the port to be shut off at a predetermined time. Compliant with 802.3af and 802.3at, these switches are capable of feeding power to devices of up to 30 Watts. Management options include SNMP, Web Management, SmartConsole Utility, and Compact CLI. The series also supports ACL filtering and D-Link's Safeguard Engine to protect the network.

- Single IP Management (virtual stacking up to 32 units)
- Power saving via LED and port shutoff, port standby, system hibernation, cable length detection, link status detection
- SNMP trap
- Trap for SmartConsole Utility
- Layer 3 static routing
- Auto Surveillance VLAN
- Loopback detection
- Cable diagnostics
- Configurable MDI/MDIX
- LLDP/LLDP-MED Supports IEEE 802.1p QoS, up to four 802.1p priority queues per Port
- Auto Voice VLAN
- Highest priority for VoIP services
- SmartConsole Utility or Web-Based GUI
- Compact CLI through telnet
- Access Control List secures network
- Port security supports 64 MACs per port
- ARP spoofing prevention
- D-Link Safeguard Engine
- 19-inch, 1U rack-mountable

Optional Accessories

Optional Redundant Power Supplies

DPS-700	589W redundant power supply for DGS-1500-28P

Optional Management Software

DV-600S	D-View 6.0 Network Management Software Standard Edition
DV-600P	D-View 6.0 Network Management Software Professional Edition

DGS-1500-20

- 10/100/1000BASE-T port x 16
- SFP port x 4
- Fanless

DGS-1500-28

- 10/100/1000BASE-T port x 24
- SFP port x 4
- Fanless

DGS-1500-28P

- 10/100/1000BASE-T PoE port x 24
- SFP port x 4
- 802.3af and 802.3at PoE/PoE+ support
- 370W PoE power budget (740W with DPS-700 RPS)
- Smart fans

DGS-1500-52

- 10/100/1000BASE-T port x 48
- SFP port x 4
- Smart fans

Model		DGS-1500-20	DGS-1500-28	DGS-1500-28P	DGS-1500-52
Interfaces	Fast Ethernet				
	Gigabit Ethernet	16	24	24	48
	SFP Slots	4	4	4	4
	Combo Gigabit/SFP Slots				
	10GbE Slots				
General Features	Stackability	Virtual stacking of up to 32 units			
	Stacking Speed (per Port)				
	Switching Capacity	40 Gbps	56 Gbps	56 Gbps	104 Gbps
	Forwarding Mode	Store-and-Forward			
	Packet Buffer Memory	1 MB			
	MAC Table	16 K			
	Flow Control	802.3x, HOL Blocking Prevention			
	MDI/MDIX	Configurable			
L2 Features	Loop Protection	802.1D, 802.1w			
	803.2ad Link Aggregation	10 Groups 8 Gb Ports per Group	14 Groups 8 Gb Ports per Group		26 Groups 8 Gb Ports per Group
	Port Mirroring	One-to-One, Many-to-One, RX/TX/Both			
	Loopback Detection	•			
	Cable Diagnostics	•			
L3 Features	IP Interfaces	4			
	Routing Protocols	Static			
	Policy-Based Routing				
	Route Balancing				
	IPv6 Tunneling				
	VRRP				
Virtual LAN (VLAN)	VLANs	Static: 4 K			
	GVRP	•			
	Protocol VLAN (802.1v)				
	Double VLAN (Q-in-Q)				
Multicasting	Groups	256			
	Protocols	IGMP v1/v2			
Quality of Service (QoS)	Standard	802.1p, DSCP			
	Number of Queues	4			
	Mode	Strict / WRR			
	CoS Handling	802.1p, DSCP			
	Bandwidth Control	Port-Based			
Security	STP Security				
	Per-Port MAC Limitation	•			
	Static MAC	64			
	Storm Control	Broadcast / Multicast / Unicast			
	IP-MAC-Port Binding	512 Entries			
	DHCP Spoofing Prevention	•			
	ARP Spoofing Prevention	•			
	Traffic Segmentation	•			
	D-Link SafeGuard Engine	•			
Authentication, Authorisation and Accounting (AAA)	802.1x Authentication	Port-Based			
	Web-Based Access Control (WAC)				
	MAC-Based Access Control (MAC)				
	Network Access Protection (NAP)				
	Guest VLAN				
	Switch Access	User Account			
Access Control Lists (ACL)	Rules	200	200	200	450
	ACL Handling	MAC, IP, 802.1p, DSCP/IPV6 Address			
	Time-Based ACL				
Power over Ethernet	Standard			802.3af 802.3at	
	PoE Ports			1-24	
	PoE Budget			370 W (740 W with RPS-700)	
	Time-Based PoE			•	
Management	Switch Access	Web GUI, Telnet			
	sFlow				
	SNMP	v1 / v2c / v3			
	DHCP				
	RMON	•			
	TFTP Client	•			
	Syslog				
Physical and Environment	Power Supply	Internal			
	Max. Power Consumption	14.06 W	16.81 W	447 W	43.5 W
	Power Saving Technology	IEEE 802.3az EEE, Green Ethernet			
	Operating Temperature	5º to 50°C			
	Operating Humidity	0% to 95% RH Non-condensing			
	Dimensions (W x D x H)	440 x 140 x 44 mm	440 x 210 x 44 mm	440 x 310 x 44 mm	440 x 250 x 44 mm
	Mean Time Between Failures (MTBF)	253,460 Hours	236,739 Hours	206,075 Hours	201,517 Hours
Modules/ Transceivers	SFP Transceivers	DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT			DEM-210, DEM-211, DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT
	WDM SFP Transceivers	DEM-331T, DEM-331R			

Gigabit Smart Switches with Fibre Uplinks

DGS-1210 Series

The DGS-1210 Series Gigabit Smart+ Switches with Fibre Uplinks is the latest generation of D-Link smart switches featuring D-Link Green 3.0 technology. The series offers a high level of energy saving and efficiency, as it also complies with the IEEE 802.3az Energy Efficient Ethernet standard. IPv6 Ready Logo Program Approved, support for IPv6 management and configurations ensures your network remains protected after the upgrade from IPv4 to IPv6. By offering multiple management options, the Smart+ Switches allows quick deployment, infrastructure expansion, and seamless function upgrades. Built for small and medium-sized businesses, the DGS-1210 Series provide functionality, security, and manageability for a fraction of the standard cost of ownership.

The DGS-1210 Series includes a range of high power budget PoE-enable switches for businesses looking to power VoIP phones, wireless access points or network cameras. The DGS-1210-10P is a 8-port Smart PoE+ Switch that provides 8 PoE-enabled ports that can supply power of up to 30 W each. Whereas the DGS-1210-28P is a Smart PoE+ Switch with a power budget of 187 W, that provides 24 PoE-enabled ports with ports 1-4 supporting up to 30 W of power output following IEEE 802.3at standard. The design allows more flexibility in power allocation for a variety of powered devices with affordable installation costs

- Internet Group Management Protocol (IGMP) snooping
- Loopback Detection (LBD)
- Cable diagnostics
- 802.1Q virtual LAN (VLAN)
- Management VLAN
- Asymmetric VLAN
- Auto Voice VLAN
- Quality of Service (QoS)
- Access Control List (ACL)
- 802.1X access control
- Port security
- Broadcast/multicast/unicast storm control
- D-Link Safeguard Engine
- DHCP server screening
- ARP spoofing prevention
- Web-based GUI
- Simple Network Management Protocol (SNMP)

Optional Accessories

Optional Management Software

DV-600S	D-View 6.0 Network Management Software (standard edition)
DV-600P	D-View 6.0 Network Management Software (professional edition)

DGS-1210-10P

- 10/100/1000BASE-T PoE port x 8
- Combo 10/100/1000BASE -T/SFP port x 2
- 802.3af and 802.3at PoE/PoE+ support
- 78W PoE power budget
- Fanless
- 13-inch, 1U desktop

DGS-1210-20

- 10/100/1000BASE-T port x 16
- SFP port x 4
- Fanless
- 19-inch, 1U rack-mountable

DGS-1210-28

- 10/100/1000BASE-T port x 24
- SFP port x 4
- Fanless
- 19-inch, 1U rack-mountable

DGS-1210-28P

- 10/100/1000BASE-T PoE port x 24
- SFP port x 4
- 802.3af and 802.3at PoE/PoE+ support
- 185W PoE power budget
- Smart fans
- 19-inch, 1U rack-mountable

DGS-1210-52

- 10/100/1000BASE-T port x 48
- SFP port x 4
- Smart fans
- 19-inch, 1U rack-mountable

Model		DGS-1210-10P	DGS-1210-20	DGS-1210-28	DGS-1210-28P	DGS-1210-52
Interfaces	Fast Ethernet					
	Gigabit Ethernet	8	16	24	24	48
	Combo Gigabit/SFP Slots	2				
	SFP Slots		4	4	4	4
General Features	Stackability					
	Stacking speed (per Port)					
	Switching Capacity	20 Gbps	40 Gbps	56 Gbps	56 Gbps	104 Gbps
	Forwarding Mode	Store-and-Forward				
	Packet Buffer Memory	1 MB per device		1.5 MB per device		3 MB per device
	MAC Table	16 K				
	Flow Control	802.3x, HOL Blocking Prevention				
	MDI/MDIX	Configurable				
L2 Features	Loop Protection	802.1Q, 802.1w				
	803.2ad Link Aggregation	Max. 5 groups 8 ports per group	Max. 10 groups per device/ 8 ports per group	Max. 14 groups per device/ 8 ports per group		Max. 26 groups per device/ 8 ports per group
	Port Mirroring	One-to-One, Many-to-One, RX/TX/Both				
	Loopback Detection	•				
	Cable Diagnostics	•				
Virtual LAN (VLAN)	VLANs	4 K				
	GVRP					
	Protocol VLAN (802.1v)					
	Double VLAN (Q-in-Q)					
	Auto Voice VLAN	•				
	Auto Surveillance VLAN	•				
Multicasting	Groups	256				
	Protocols	IGMP v1, v2				
Quality of Service (QoS)	Standard	802.1p, DSCP				
	Number of Queues	4				
	Mode	Strict / WRR				
	CoS Handling	802.1p, DSCP				
	Bandwidth Control	Port -Based				
Security	STP Security					
	Per-Port MAC Limitation	•				
	Static MAC	64				
	Storm Control	Broadcast / Multicast / Unicast				
	IP-MAC-Port Binding					
	DHCP Server Screening	•				
	ARP Spoofing Prevention	•				
	Traffic Segmentation	•				
	D-Link SafeGuard Engine	•				
Authentication, Authorisation and Accounting (AAA)	802.1x Authentication	Port-Based				
	Web-Based Access Contol (WAC)					
	MAC-Based Access Contol (MAC)					
	Network Access Protection (NAP)					
	Guest VLAN					
	Switch Access					
Access Control Lists (ACL)	Rules	768				
	Mac-Based ACL	VLAN ID, 802.1p, MAC, IP, DSCP, Port				
	Time-Based ACL					
Power over Ethernet	Standard	802.3af, 802.3at			802.3af, 802.3at	
	PoE Ports	1-8			1-24	
	PoE Budget	78 W			193 W	
	Time-Based PoE	•			•	
Management	Switch Access	Web GUI, Telnet				
	sFlow					
	SNMP	v1 / v2c / v3				
	DHCP	Client				
	RMON					
	TFTP Client	•				
	Syslog	•				
Physical and Environment	Power Supply	Internal				
	Max. Power Consumption	97W (PoE on) 12.5W (PoE off)	14.06 W	22.45 W	246.5 W (PoE on) 28.5 W (PoE off)	38.27 W
	Power Saving Technology	Link Status, Cable Length detection , LED or Port Shutoff , Port Standby mod, System Hibernation mod				
	Number of Fans	0	0	0	3	2
	Operating Temperature	0 to 40°C				
	Operating Humidity	0% to 95% RH Non-condensing				
	Dimensions (W x D x H)	330 x 180 x 44 mm	440 x 140 x 44 mm	440 x140 x 44 mm	440 x 210 x 44 mm	440 x 210 x 44 mm
Modules/ Transceivers	SFP Transceivers	DEM-210, DEM-211, DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT	DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT			DEM-210, DEM-211, DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT
	WDM SFP Transceivers	DEM-331T, DEM-331R				

Gigabit Smart Switches with Fibre Uplinks

DGS-1210 Series

The DGS-1210 Series Gigabit Smart Switches with Fibre Uplinks offers a high level of energy saving and efficiency, as it also complies with the IEEE 802.3az Energy Efficient Ethernet standard. Support for IPv6 management and configurations ensures your network remains protected after the upgrade from IPv4 to IPv6. By offering multiple management options, the Smart Switches allows quick deployment, infrastructure expansion, and seamless function upgrades. Built for small and medium-sized businesses, the DGS-1210 Series provide functionality, security, and manageability for a fraction of the standard cost of ownership.

The DGS-1210 Series includes a range of affordable PoE-enabled switches for businesses looking to power VoIP phones, wireless access points or network cameras. The DGS-1210-08P is a 8-port Smart PoE Switch that provides 8 PoE-enabled ports that can supply power of up to 15.4 W each. Whereas the DGS-1210-24P is a 24-port Smart PoE Switch that provides 12 PoE-enabled ports that can support up to 30 W of power output following IEEE 802.3at standard. The design allows more flexibility in power allocation for a variety of powered devices with affordable installation costs.

- Internet Group Management Protocol (IGMP) snooping
- Loopback Detection (LBD)
- Cable diagnostics
- 802.1Q Virtual LAN (VLAN)
- Management VLAN
- Asymmetric VLAN
- Auto Voice VLAN
- Quality of Service (QoS)
- Access Control List (ACL)
- 802.1X access control
- Port security
- Broadcast/multicast/unicast storm control
- D-Link Safeguard Engin
- DHCP server screening
- ARP spoofing prevention
- Web-based GUI
- Simple Network Network Management Protocol (SNMP)

Optional Accessories

Optional Management Software

DV-600S	D-View 6.0 Network Management Software (standard edition)
DV-600P	D-View 6.0 Network Management Software (professional edition)

DGS-1210-08P

- 10/100/1000BASE-T PoE port x 8
- 802.3af PoE support
- 45W PoE power budget
- Fanless
- 11-inch, 1U desktop

DGS-1210-16

- 10/100/1000BASE-T port x 16
- SFP port x 4
- Fanless
- 11-inch, 1U desktop

DGS-1210-24

- 10/100/1000BASE-T port x 24
- SFP port x 4
- Fanless
- 19-inch, 1U rack-mountable

DGS-1210-24P

- 10/100/1000BASE-T PoE port x 12
- 10/100/1000BASE-T port x 12
- SFP port x 4
- 802.3af and 802.3at PoE/PoE+ support
- 85W PoE power budget
- 19-inch, 1U rack-mountable

DGS-1210-48

- 10/100/1000BASE-T port x 44
- Combo 10/100/1000BASE -T/SFP port x 4
- 19-inch, 1U rack-mountable

Model		DGS-1210-08P	DGS-1210-16	DGS-1210-24	DGS-1210-24P	DGS-1210-48
Interfaces	Fast Ethernet					
	Gigabit Ethernet	8	16	24	24	44
	Combo Gigabit/SFP Slots					4
	SFP Slots	2	4	4	4	
General Features	Stackability					
	Stacking speed (per Port)					
	Switching Capacity	20 Gbps	40 Gbps	56 Gbps	56 Gbps	96 Gbps
	Forwarding Mode	Store-and-Forward				
	Packet Buffer Memory	512 K	512 K	512 K	41.7Mpps	77.4Mpps
	MAC Table	16 K				
	Flow Control	802.3x, HOL Blocking Prevention				
	MDI/MDIX	Configurable				
L2 Features	Loop Protection	802.1Q, 802.1w				
	803.2ad Link Aggregation	8 Groups 8 Ports per Group				
	Port Mirroring	One-to-One, Many-to-One, RX/TX/Both, Flow-Based				
	Loopback Detection	•				
	Cable Diagnostics	•				
Virtual LAN (VLAN)	VLANs	Static 256				
	GVRP					
	Protocol VLAN (802.1v)					
	Double VLAN (Q-in-Q)					
	Auto Voice VLAN	•				
	Auto Surveillance VLAN	•				
Multicasting	Groups	256				
	Protocols	IGMP v1, v2				
Quality of Service (QoS)	Standard	802.1p, DSCP				
	Number of Queues	8	4	4	8	4
	Mode	Strict / WRR				
	CoS Handling	802.1p, DSCP				
	Bandwidth Control	Port-based	•	•	Port-based	•
Security	STP Security					
	Per-Port MAC Limitation	•				
	Static MAC	64				
	Storm Control	Broadcast / Multicast / Unicast				
	IP-MAC-Port Binding	•				
	DHCP Server Screening	•				
	ARP Spoofing Prevention	•				
	Traffic Segmentation	•				
	D-Link SafeGuard Engine	•				
Authentication, Authorisation and Accounting (AAA)	802.1x Authentication	Port-Based				
	Web-Based Access Contol (WAC)					
	MAC-Based Access Contol (MAC)					
	Network Access Protection (NAP)					
	Guest VLAN					
	Switch Access					
Access Control Lists (ACL)	Rules	200				
	Mac-Based ACL	VLAN ID, 802.1p, MAC, IP, DSCP, Port				
	Time-Based ACL					
Power over Ethernet	Standard	802.3af			802.3af, 802.3at	
	PoE Ports	8			12	
	PoE Budget	45W			85W	
	Time-Based PoE	•			•	
Management	Switch Access	Web GUI, Telnet				
	sFlow					
	SNMP	v1 / v2c / v3				
	DHCP	Client				
	RMON					
	TFTP Client	•				
	Syslog	•				
Physical and Environment	Power Supply	Internal				
	Max. Power Consumption	5.6W/60W	17.4 W	24.1 W	9.7W / 120W	59.1 W
	Power Saving Technology	Link Status, Cable Length detection , LED or Port Shutoff , Port Standby mod, System Hibernation mod				
	Number of Fans	0	0	0	2	2
	Operating Temperature	0 to 50°C	0 to 40°C	0 to 40°C	0 to 50°C	0 to 40°C
	Operating Humidity	10% to 95% RH Non-condensing				
	Dimensions (W x D x H)	280 x 180 x 44 mm	440 x 210 x 44 mm	440 x 210 x 44 mm	441 x 209.9 x 44 mm	440 x 250 x 44 mm
	Mean Time Between Failures (MTBF)	348,795 Hours	799,491 Hours	410,948 Hours	205,768 hours	322,402 Hours
Modules/ Transceivers	SFP Transceivers	DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT,				
	WDM SFP Transceivers	DEM-331T, DEM-331R				

Fast Ethernet Smart Switches

DES-1210 Series

The DES-1210 Series Fast Ethernet Smart Switches with Fibre Uplinks* provides 8, 24 or 48 Fast Ethernet ports, and optional Gigabit and combo Gigabit/SFP ports, this series offers all the features needed in a small and medium business, without the complexity or cost. The built-in web interface and PC based SmartConsole Utility make these switches easy to deploy, configure and troubleshoot. Its complete set of features allows for seamless integration in every environment. The PoE option is available on the 8 and 24 port members of the family. Integrating technologies such as time-based PoE which allows the power to be shut off at a predetermined time, saving power on VoIP phones, Wireless Access Points or any other PoE equipment. The DES-1210-28P utilises Smart Fan feature, automatically turning on the system fans only when necessary. This not only saves energy and cost but it also extends the lifespan of the switch. The DES-1210-28P is also compliant with the new PoE+ standard, enabling it to feed up to 30 Watts to connected devices.

- Internet Group Management Protocol (IGMP) Snooping
- Multicast Filtering
- 802.1Q Tagged Virtual LAN (VLAN)
- Management VLAN
- Asymmetric VLAN
- Auto Voice VLAN
- Quality of Service (QoS)
- Access Control List (ACL)
- 802.1X Access Control
- Broadcast/Multicast/Unicast Storm Control
- D-Link Safeguard Engine
- DHCP Server Screening
- ARP Spoofing Prevention
- Web-Based GUI
- Simple Network Management Protocol (SNMP)

Optional Accessories

Optional Management Software

DV-600S	D-View 6.0 Network Management Software (standard edition)
DV-600P	D-View 6.0 Network Management Software (professional edition)

DES-1210-08P

- 10/100BASE-TX PoE port x 8
- 802.3af PoE support
- 72W PoE power budget
- Fanless
- Desktop size

DES-1210-28

- 10/100BASE-TX port x 24
- 10/100/1000BASE-T port x 2
- Combo 1000BASE -T/SFP port x 2
- Fanless
- 19-inch, 1U rack-mountable

DES-1210-28P

- 10/100BASE-TX PoE port x 24
- 10/100/1000BASE-T port x 2
- Combo 1000BASE -T/SFP port x 2
- 802.3af and 802.3at PoE/PoE+ support
- 193W PoE power budget
- Smart Fan x3
- 19-inch, 1U rack-mountable

DES-1210-52

- 10/100BASE-TX port x 48
- 10/100/1000BASE-T port x 2
- Combo 1000BASE -T/SFP port x 2
- Fanless
- 19-inch, 1U rack-mountable

Model		DES-1210-08P	DES-1210-28	DES-1210-28P	DES-1210-52
Interfaces	Fast Ethernet	8	24	24	48
	Gigabit Ethernet		2	2	2
	Combo Gigabit/SFP Slots		2	2	2
General Features	Stackability				
	Stacking Speed (per Port)				
	Switching Capacity	1.6 Gbps	12.8 Gbps	12.8 Gbps	17.6 Gbps
	Forwarding Mode	Store-and-Forward			
	Packet Buffer Memory	384 K	512 K	512 K	1 M
	MAC Table	8 K			
	Flow Control	802.3x, HOL Blocking Prevention			
	MDI/MDIX	Configurable			
L2 Features	Loop Protection	802.1Q, 802.1w			
	803.2ad Link Aggregation	4 Groups 8 Ports per Group	14 Groups 8 Ports per Group	14 Groups 8 Ports per Group	26 Groups 8 Ports per Group
	Port Mirroring	One-to-One, Many-to-One, RX/TX/Both			
	Loopback Detection	•			
	Cable Diagnostics				
Virtual LAN (VLAN)	VLANs	Static: 256			
	GVRP				
	Protocol VLAN (802.1v)				
	Double VLAN (Q-in-Q)				
	Auto Voice VLAN	•			
	Auto Surveillance VLAN	•			
Multicasting	Groups	256			
	Protocols	IGMP v1, v2			
Quality of Service (QoS)	Standard	802.1p, DSCP			
	Number of Queues	4			
	Mode	Strict / WRR			
	CoS Handling	802.1p, DSCP			
	Bandwidth Control	•			
Security	STP Security				
	Per-Port MAC Limitation	•			
	Static MAC	64			
	Storm Control	Broadcast / Multicast / Unicast			
	IP-MAC-Port Binding				
	DHCP Server Prevention	•			
	ARP Spoofing Prevention	•			
	Traffic Segmentation	•			
	D-Link SafeGuard Engine	•			
Authentication, Authorisation and Accounting (AAA)	802.1x Authentication	Port-Based			
	Web-based Access Contol (WAC)				
	MAC-based Access Contol (MAC)				
	Network Access Protection (NAP)				
	Guest VLAN				
	Switch Access				
Access Control Lists (ACL)	Rules	240			
	Mac-Based ACL	VLAN ID, 802.1p, MAC, IP, DSCP, Port			
	Time-Based ACL				
Power over Ethernet	Standard	802.3af		802.3af, 802.3at	
	PoE Ports	1-8		802.3af: Ports 1-24 802.3at: Ports 1-4	
	PoE Budget	72 W		193 W	
	Time-Based PoE	•		•	
Management	Switch Access	Web GUI, Telnet			
	sFlow				
	SNMP	v1 / v2c / v3			
	DHCP	Client			
	RMON				
	TFTP Client	•			
	Syslog	•			
Physical and Environment	Power Supply	External	Internal	Internal	Internal
	Max. Power Consumption	89.4 W (PoE on) 9.6 W (PoE off)	13.4 W	254 W (PoE on) 26.4 W (PoE off)	28.9 W
	Power Saving Technology			Smart Fans	
	Number of Fans	0	0	3	0
	Operating Temperature	0 to 40°C			
	Operating Humidity	5% to 95% RH Non-condensing			
	Dimensions (W x D x H)	190 x 120 x 38 mm	440 x 140 x 44 mm	440 x 250 x 44 mm	440 x 250 x 44 mm
	Mean Time Between Failures (MTBF)	274,382 Hours	356,242 Hours	205,416 Hours	592,770 Hours
Modules/ Transceivers	SFP Transceivers		DEM-210, DEM-211, DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT		
	WDM SFP Transceivers		DEM-331T, DEM-331R		

Gigabit Smart Switches

DGS-1100 Series

The DGS-1100 Series provides businesses with the benefits of a managed device but without the associated complexity and cost. Equipped with 8, 16 or 24 Gigabit ports, the series integrates basic configurable functions that provide performance and scalability. With an easy-to-use web interface, the EasySmart Series helps users to quickly and easily deploy their network.

- Basic configurable options
- 11-inch metal case. Comes with adapters to install in 19-inch racks
- Fanless, silent operation
- Improved resiliency, longer MTBF (Mean Time Between Failures)
- VLAN support for traffic segmentation
- AutoSurveillance VLAN for easy integration with IP-based surveillance systems
- Loopback detection and broadcast storm control to avoid network downtime
- QoS (Quality of Service) and bandwidth control to ensure smooth operation
- Cable diagnostics function to help to troubleshoot wiring problems
- Configurable through a web interface or SmartConsole utility
- 802.3az Energy Efficient Ethernet (EEE) compliant

Optional Accessories

Optional Management Software

DV-600S	D-View 6.0 Network Management Software (standard edition)
DV-600P	D-View 6.0 Network Management Software (professional edition)

DGS-1100-08

- 10/100/1000BASE-T port x 08
- 802.3ad Link Aggregation
- Static VLAN
- 802.1p QoS
- Fanless

DGS-1100-08P

- 10/100/1000BASE-T PoE port x 8
- Max Power Budget 64 W
- 802.3ad Link Aggregation
- Static VLAN
- 802.1p QoS
- Fanless

DGS-1100-16

- 10/100/1000BASE-T port x 16
- 802.3ad Link Aggregation
- Static VLAN
- 802.1p QoS
- Fanless

DGS-1100-24

- 10/100/1000BASE-T port x 24
- 802.3ad Link Aggregation
- Static VLAN
- 802.1p QoS
- Fanless

Model		DGS-1100-08	DGS-1100-08P	DGS-1100-16	DGS-1100-24
Interfaces	Fast Ethernet				
	Gigabit Ethernet	8	8	16	24
	Combo Gigabit/SFP Slots				
General Features	Stackability				
	Stacking Speed (per Port)				
	Switching Capacity	16 Gbps	16 Gbps	32 Gbps	48 Gbps
	Forwarding Mode	Store-and-Forward	11.9 Mpps	Store-and-Forward	Store-and-Forward
	Packet Buffer Memory	2 Mb	2 Mbits	3.5 Mb	
	MAC Table	8 K			
	Flow Control	802.3x, HOL Blocking Prevention			
	MDI/MDIX	Auto			
L2 Features	Loop Protection	•			
	803.2ad Link Aggregation	8 Groups, 4 Ports per Group	2 Groups,2-4 ports per group	8 Groups, 4 Ports per Group	8 Groups, 4 Ports per Group
	Port Mirroring	One-to-One, Many-to-One			
	Loopback Detection	•			
	Cable Diagnostics	•			
Virtual LAN (VLAN)	VLANs ID	32			
	GVRP				
	Protocol VLAN (802.1v)				
	Double VLAN (Q-in-Q)				
	Auto Voice VLAN	•			
	Auto Surveillance VLAN	•			
Multicasting	Groups	32			
	Protocols	IGMP v1/v2			
Quality of Service (QoS)	Standard	802.1p			
	Number of Queues	4			
	Mode	Strict / WRR			
	CoS Handling				
	Bandwidth Control	Port Based			
Security	STP Security				
	Per-Port MAC Limitation	•			
	Static MAC	128			
	Storm Control	Broadcast / Multicast / Unicast			
	IP-MAC-Port Binding				
	DHCP Server Prevention				
	ARP Spoofing Prevention				
	Traffic Segmentation				
	D-Link SafeGuard Engine				
Power Over Ethernet	Standard		802.3af		
	PoE Ports		1 to 8		
	PoE Budget		64W		
	Time-Based PoE				
Management	Switch Access	Web GUI			
	sFlow				
	SNMP				
	DHCP				
	RMON				
	TFTP Client				
	Syslog				
Physical and Environment	Power Supply	Internal			
	Max. Power Consumption	4.89W	78.8 watts (PoE on) 5.2 watts (PoE off)	6.49 W	14.83 W
	Power Saving Technology	IEEE 802.3az Energy Efficient Ethernet			
	Number of Fans	0			
	Operating Temperature	0 to 50°C	0 to 40°C	0 to 50°C	0 to 50°C
	Operating Humidity	10% to 95% RH Non-condensing			
	Dimensions (W x D x H)	171 x 98 x 28 mm	190 x 120 x 38 mm	280 x 180 x 44 mm	
	Mean Time Between Failures (MTBF)	503,585 hours	708,219 hours	988,205 Hours	774,990 Hours

Fast Ethernet Smart Switches

DES-1100 Series

The DES-1100 Series provides businesses with the benefits of a managed device but without the associated complexity and cost. Equipped with 16 or 24 Fast Ethernet ports, the series integrates basic configurable functions that provide performance and scalability. With an easy to use web interface, the EasySmart Series helps users to quickly and easily deploy their network.

- Basic configurable options
- 11-inch metal case. Comes with adapters to install in 19-inch racks
- Fanless, silent operation
- Improved resiliency, longer MTBF (Mean Time Between Failures)
- VLAN support for traffic segmentation
- Loopback detection and broadcast storm control to avoid network downtime
- QoS (Quality of Service) and bandwidth control to ensure smooth operation
- Configurable through a web interface or SmartConsole utility

Optional Accessories

Optional Management Software

DV-600S	D-View 6.0 Network Management Software (standard edition)
DV-600P	D-View 6.0 Network Management Software (professional edition)

DES-1100-16

- 10/100BASE-TX port x 16
- 802.3ad Link Aggregation
- Static VLAN
- 802.1p QoS
- Fanless

DES-1100-24

- 10/100BASE-TX port x 24
- 802.3ad Link Aggregation
- Static VLAN
- 802.1p QoS
- Fanless

Model		DES-1100-16	DES-1100-24
Interfaces	Fast Ethernet	16	24
	Gigabit Ethernet		
	Combo Gigabit/SFP Slots		
General Features	Stackability		
	Stacking Speed (per Port)		
	Switching Capacity	3.2 Gbps	4.8 Gbps
	Forwarding Mode	Store-and-Forward	
	Packet Buffer Memory	1.75 Mb	
	MAC Table	8 K	
	Flow Control	802.3x	
	MDI/MDIX	Auto	
L2 Features	Loop Protection		
	803.2ad Link Aggregation	2 Groups, 4 Ports per Group	
	Port Mirroring	One-to-One, Many-to-One	
	Loopback Detection	•	
	Cable Diagnostics		
Virtual LAN (VLAN)	VLANs ID	32	
	GVRP		
	Protocol VLAN (802.1v)		
	Double VLAN (Q-in-Q)		
	Auto Voice VLAN		
	Auto Surveillance VLAN		
Multicasting	Groups	32	
	Protocols	IGMP v1/v2	
Quality of Service (QoS)	Standard	802.1p	
	Number of Queues	2	
	Mode	Strict / WRR	
	CoS Handling		
	Bandwidth Control	Port-Based	
Security	STP Security		
	Per-Port MAC Limitation		
	Static MAC	128	
	Storm Control	Broadcast / Multicast / Unicast	
	IP-MAC-Port Binding		
	DHCP Server Prevention		
	ARP Spoofing Prevention		
	D-Link SafeGuard Engine		
Management	Switch Access	Web GUI	
	sFlow		
	SNMP		
	DHCP		
	RMON		
	TFTP Client		
	Syslog		
Physical and Environment	Power Supply	Internal	
	Max. Power Consumption	5.96 W	7.68 W
	Power Saving Technology		
	Number of Fans	0	
	Operating Temperature	0 to 40°C	
	Operating Humidity	10% to 95% RH Non-condensing	
	Dimensions (W x D x H)	280 x 125 x 44 mm	
	Mean Time Between Failures (MTBF)	597,779 Hours	562,006 Hours

Gigabit Unmanaged Switches

The DGS-1000 Series consists of Unmanaged Gigabit Switches designed for cost-effective Small Office Home Office (SOHO) and workgroup connection. They support full duplex operation, provide IEEE 802.3x flow control for reliable data transfer, and auto MDI/MDIX to eliminate the need for cross-over cables to simplify installation. They make use of D-Link Green technology to reduce power consumption and provide a longer product life without sacrificing operational performance or functionality. Recyclable packaging and minimised use of harmful substances (RoHS compliant) make this switch series truly environmentally friendly.

- Power Savings by Link Status
- Power Savings by Cable Length Detection
- Jumbo Frame
- IEEE 802.3x Flow Control
- Auto MDI/MDIX
- Quality of Service (QoS)
- Cable Diagnostics

DGS-1000 Series

DGS-1005D

- 10/100/1000BASE-T port x 5
- External power supply
- Desktop
- Fanless
- D-Link Green

DGS-1008D

- 10/100/1000BASE-T port x 8
- External power supply
- Desktop
- Fanless
- D-Link Green

DGS-1008P

- 10/100/1000BASE-T port x 8
- Includes 802.3af PoE ports x 4
- External power supply
- Desktop size
- Fanless

DGS-1016D

- 10/100/1000BASE-T port x 16
- Internal power supply
- 11-inch, 1U desktop with rack-mount kit
- Fanless
- D-Link Green

DGS-1024D

- 10/100/1000BASE-T port x 24
- Internal power supply
- 11-inch, 1U desktop with rack-mount kit
- Fanless
- D-Link Green

DGS-105/108 Series

DGS-105

- 10/100/1000BASE-T port x 5
- Robust metal product housing
- 802.3az Energy Efficient Ethernet (EEE)
- Cable diagnostics function
- Slot for Kensington security locks

DGS-108

- 10/100/1000BASE-T port x 8
- Robust metal product housing
- 802.3az Energy Efficient Ethernet (EEE)
- Cable diagnostics function
- Slot for Kensington security Locks

Model		DGS-1005D	DGS-1008D	DGS-1008P	DGS-1016D	DGS-1024D
Interfaces	100BASE-TX					
	1000BASE-T	5	8	8	16	24
	100BASE-FX					
General Features	Switching Capacity	10 Gbps	16 Gbps	16 Gbps	48 Gbps	32 Gbps
	Forwarding Mode	Store-and-Forward				
	Packet Buffer Memory	192 KB	192 KB	192 KB	512 KB	512 KB
	MAC Table	8 K	4 K	4 K	8 K	8 K
	Flow Control	802.3x				
	MDI/MDIX	Auto				
Quality of Service (QoS)	Standard	802.1p	802.1p	802.1p, DSCP	802.1p	802.1p
	Number of Queues			4		
	Mode			Strict		
Power over Ethernet	Standard			802.3af		
	PoE Ports			1-4		
	PoE Budget			52 W		
Physical and Environment	Power Supply		External		Internal	Internal
	Power Saving Technology	Green Ethernet and Energy-Efficient Ethernet(EEE)			Green Ethernet	
	Number of Fans			0		
	Operating Temperature	0 to 40°C	0 to 40°C	0 to 50°C	0 to 40°C	0 to 40°C
	Operating Humidity	10% to 90% RH Non-condensing	10% to 90% RH Non-condensing	0% to 95% RH Non-condensing	5% to 90% RH Non-condensing	
	Dimensions (W x D x H)	44.2 x 100.2 x 32.6 mm	164.5 x 112.4 x 35.0 mm	190 x 120 x 38 mm	280 x 180 x 44 mm	280 x 180 x 44 mm

Model		DGS-105	DGS-108
Interfaces	100BASE-TX		
	1000BASE-T	5	8
	100BASE-FX		
General Features	Switching Capacity	10 Gbps	16 Gbps
	Forwarding Mode	Store-and-Forward	
	Packet Buffer Memory	128 K	128 K
	MAC Table	2 K	8 K
	Flow Control	IEEE 802.3x	IEEE 802.3x
	MDI/MDIX	Auto MDI/MDIX adjustment for all ports	
Quality of Service (QoS)	Standard	IEEE 802.1p	IEEE 802.1p
	Number of Queues	4 Queues	4 Queues
	Mode	Strict	Strict
Physical and Environment	Power Supply	External 5 V/1 A Level "V" Power Adapter	
	Power Saving Technology	Green Ethernet and IEEE 802.3az Energy-Efficient Ethernet (EEE)	
	Number of Fans	0	
	Operating Temperature	0 ° to 50°C	
	Operating Humidity	5% to 90% RH Non-condensing	
	Dimensions (W x D x H)	100 x 98 x 28 mm	162 x 102 x 28 mm

Fast Ethernet Unmanaged Switches

The DES-1000 Series consists of Unmanaged Ethernet Switches designed for cost effective Small Office Home Office (SOHO) and workgroup connection. They use the copper twisted-pair wires as the network cable, and support full/half duplex operation for 10/100 Mbps speeds. These switches provide IEEE 802.3x flow control for reliable data transfer, and auto MDI/MDI-X to eliminate the need for cross over cables to simplify installation.

- Fanless
- IEEE 802.3x Flow Control
- Auto MDI/MDIX
- Plug-and-Play Installation Filtering
- Quality of Service (QoS) (DES-1016D and DES-1024D)

DES-1000 Series

DES-1005D

- 10/100BASE-TX port x 5
- External power supply
- Desktop
- Fanless

DES-1008D

- 10/100BASE-TX port x 8
- External power supply
- Desktop
- Fanless

DES-1005P

- Includes 10/100BASE-TX port x 5
- 802.3af PoE port x 1
- QoS support for traffic prioritisation
- Green Ethernet technology
- Fanless - silent operation

DES-1008PA

- 10/100BASE-TX port x 8
- External power supply
- Desktop
- Fanless

DES-1008F

- 10/100Base-TX port x 7
- 100Base-FX port x 1
- External power supply
- Desktop size
- Fanless

DES-1016D

- 10/100BASE-TX port x 16
- Internal power supply
- 11-inch, 1U desktop with rack-mount kit
- Fanless

DES-1024D

- 10/100BASE-TX port x 24
- Internal Power Supply
- 11-inch, 1U desktop with rack-mount kit
- Fanless

DES-105/108 Series

DES-105

- 10/100BASE-TX port x 5
- Plug and Play operation
- QoS functionality
- Robust product metal housing
- Low energy consumption

DES-108

- 10/100BASE-TX port x 8
- Plug and Play operation
- QoS functionality
- Robust product metal housing
- Low energy consumption

Model		DES-1005D	DES-1008D	DES-1005P	DES-1008PA
Interfaces	100BASE-TX	5	8	5	8
	1000BASE-T				
	100BASE-FX				
General Features	Switching Capacity	1 Gbps	1.6 Gbps	1 Gbps	1.6 Gbps
	Forward	Store-and-Forward			Store-and-Forward
	Packet Buffer Memory	57 KBytes per device	57 KBytes per device	64 KB	96 K
	MAC Table	2K	1K	2 K	1K
	Flow Control	802.3x			
	MDI/MDIX	Auto			
Quality of Service (QoS)	Standard	802.1p			
	Number of Queues			4	
	Mode			Strict	
Power over Ethernet (PoE)	Standard			802.3af	802.3af
	PoE Ports			1	4
	PoE Budget			52 W	52 W
Physical and Environment	Power Supply	External	External	External	External
	Power Saving Technology	Green Ethernet and Energy-Efficient Ethernet(EEE)		Yes	
	Number of Fans	0			
	Operating Temperature	0 to 50°C	0° to 40°C	0° to 40°C	0 to 40°C
	Operating Humidity	10% to 90% RH Non-condensing			5% to 90% RH Non-condensing
	Dimensions (W x D x H)	125.3 x 83.4 x 29.1 mm	164.5 x 111.5 x 36.0 mm	140 x 85 x 28 mm	172 x 98 x 27.9 mm

Model		DES-1008F	DES-1016D	DES-1024D
Interfaces	100BASE-TX	7	16	24
	1000BASE-T			
	100BASE-FX	1		
General Features	Switching Capacity	1.6 Gbps	3.2 Gbps	4.8 Gbps
	Forwarding Mode	Store-and-Forward		
	Packet Buffer Memory	96 KB	160 KB	
	MAC Table	1 K	8 K	
	Flow Control	802.3x		
	MDI/MDIX	Auto		
Quality of Service (QoS)	Standard	802.1p		
	Number of Queues			2
	Mode		Strict	Strict
Physical and Environment	Power Supply	External	Internal	Internal
	Power Saving Technology			
	Number of Fans	0		
	Operating Temperature	0° to 40°C		
	Operating Humidity	10% to 90% RH Non-condensing		
	Dimensions (W x D x H)	192 x 117 x 32 mm	280 x 125.8 x 44 mm	280 x 125.8 x 44 mm

Model		DES-105	DES-108
Interfaces	100BASE-TX	5	8
	1000BASE-T		
	100BASE-FX		
General Features	Switching Capacity	1.0 Gbps	1.6 Gbps
	Forwarding Mode	Store-and-Forward	
	Packet Buffer Memory	384 KBytes per Device	768 KBytes per Device
	MAC Table	2 K	1 K
	Flow Control	IEEE 802.3x	
	MDI/MDIX	Auto MDI/MDIX Adjustment for all Ports	
Quality of Service (QoS)	Standard	IEEE 802.1p	IEEE 802.1p
	Number of Queues	2 Queues	2 Queues
	Mode	Strict	WRR Mode
Physical and Environment	Power Supply	External 5 V/1 A Level "V" Power Adapter	
	Power Saving Technology	Green Ethernet and IEEE 802.3az Energy Efficient Ethernet (EEE)	
	Number of Fans		
	Operating Temperature	0 to 50°C	
	Operating Humidity	10% to 90% RH Non-condensing	
	Dimensions (W x D x H)	100 x 98 x 28 mm	162 x 102 x 28 mm

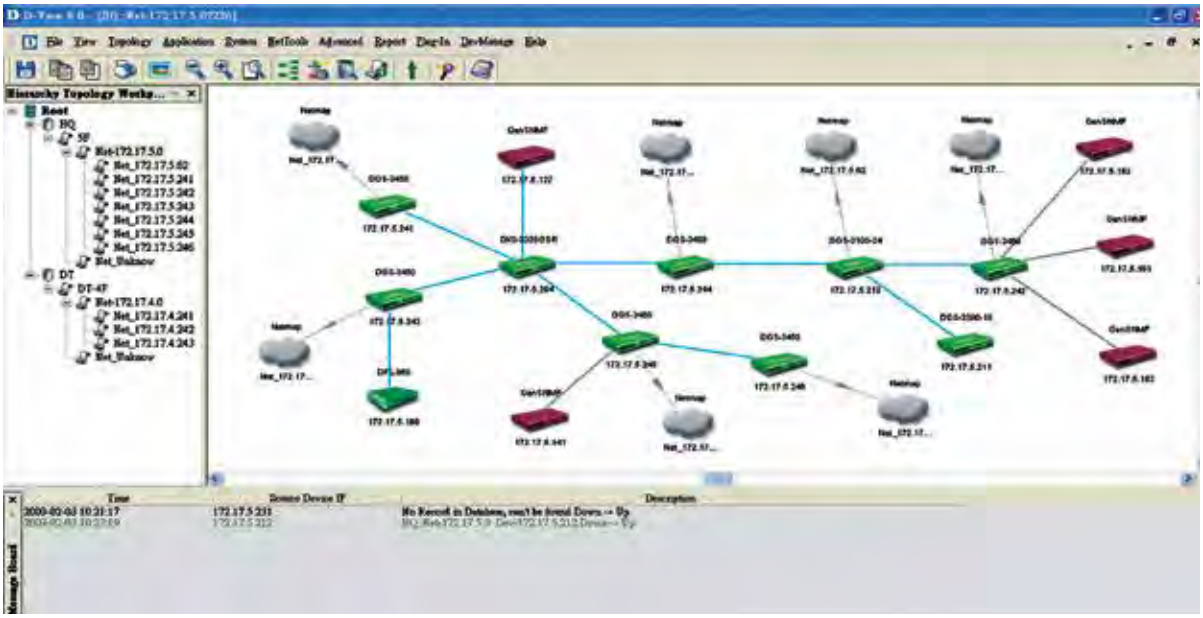
Network Management D-View 6.0

DV-600S and DV-600P

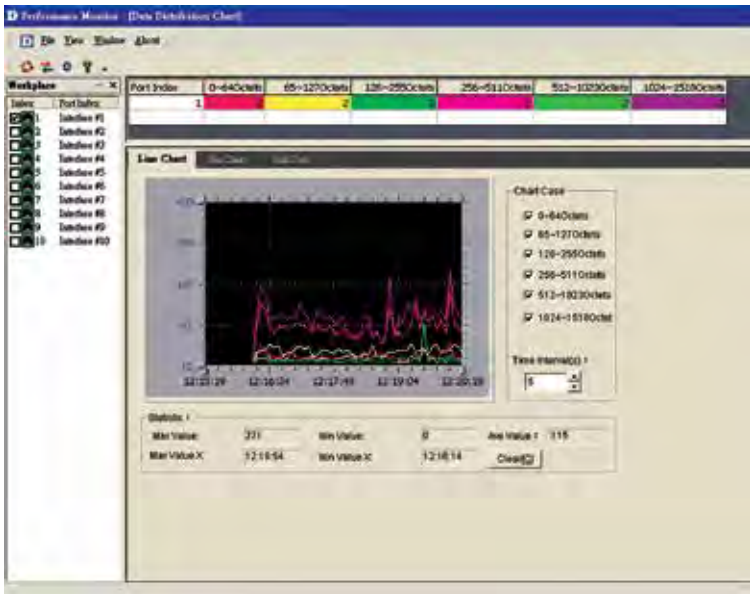
D-View 6.0 provides user-friendly interface with easy access to all the features and tools from a single location. D-View is easy to learn and can help ease the administrator's task of manually creating network topology because it provides robust features for quick generation of such topology within the software. The administrator can also import or export the topology as and when required.

Model	D-View 6.0 Standard (DV-600S)	D-View 6.0 Professional (DV-600P)
Hardware Requirement	CPU: 1.4GHz and above; DRAM: 1G and above; Hard Disk: 200MB; Ethernet Interface: 10/100/1000Mbps	
Software Requirement	Internet Explorer 6 SP1 and above; Microsoft® XML Parser; SDK	
Operating System Requirement	Microsoft® Windows 2000 Server SP4 Microsoft® Windows 2000 Advanced Server SP4 Microsoft® Windows 2003 SP2 Microsoft® XP Home / Professional SP2	Microsoft® Windows 2000 Server SP4 Microsoft® Windows 2000 Advanced Server SP4 Microsoft® Windows 2003 SP2
Database Management System Requirement	-	Microsoft® SQL Server 2000 SP3 Microsoft® SQL Server 2005
Architecture	Standalone Architecture	Client-Server Architecture
Login	Single User Login	Multiple User Login
No. of Supported Nodes	<=1,000	>=1,000

Features	
Network Management	• Automatically discover new devices in the network • Periodically poll network devices to monitor their status • Provide an intuitive view of managed devices in a topology • Support multiple, concurrent administrators • Integrate with all SNMP-enabled devices
Fault / Event Management	• Notify administrator when new trap events occur through email, audio or visual alerts • Support customised notifications - based on severity of event
Device Management	• Central management centre for D-Link's end-to-end security solutions • Provide backup and restoration of configuration files • Manage third-party devices using the MIB compiler and MIB browser
Performance Management	• Retrieve and monitor packet information for specific ports such as error rate, packet size and port flow statistics - based on RMON protocol or RFC 1213 standard
MIB Utilities	• Powerful, easy-to-use MIB complier and browser • Support free and lost views for viewing devices in a domain
D-View Plug-ins	• E2ES Console Plug-in • Wireless Plug-in



Topology Map



Performance Monitoring

SFP/XFP Transceivers

D-Link's Small Form-Factor Pluggable (SFP) and 10-Gigabit Small Form-Factor Pluggable (XFP) Transceivers can achieve long distance data transmission and high speed communication with single-mode fibre, multi-mode fibre and copper cables. These modules can be installed into switches and media converters.

Fast Ethernet SFP Transceivers

Model		DEM-210	DEM-211
Standard		IEEE 802.3u 100 BASE-FX	IEEE 802.3u 100 BASE-FX
Connector		Duplex LC	Duplex LC
Fibre Type	Single-Mode	9/125 µm	
	Multi-Mode		62.5/125 µm
Wavelength		1310 nm	1310 nm
Max. Distance		15 km	2 km
Power		3.3 V	3.3 V
Hot-Pluggable		•	•

Gigabit Ethernet SFP Transceivers

Model		DEM-310GT	DEM-311GT	DEM-314GT	DEM-315GT
Standard		IEEE 802.3z 1000 BASE-LX	IEEE 802.3z 1000 BASE-SX	IEEE 802.3z 1000 BASE-LX	IEEE 802.3z 1000 BASE-LX
Connector		Duplex LC	Duplex LC	Duplex LC	Duplex LC
Fibre Type	Single-Mode	9/125 µm		9/125 µm	9/125 µm
	Multi-Mode	50/125 µm 62.5/125 µm	50/125 µm 62.5/125 µm		
Wavelength		1310 nm	850 nm	1310 nm	1550 nm
Max. Distance		10 km	550 m	50 km	80 km
Power		3.3 V	3.3 V	3.3 V	3.3 V
Hot-Pluggable		•	•	•	•

Gigabit Ethernet WDM Bi-Directional SFP Transceivers

Model		DEM-331R[2]	DEM-331T[2]
Standard		IEEE 802.3z 1000 BASE-BX	IEEE 802.3z 1000 BASE-BX
Connector		Simplex LC	Simplex LC
Fibre Type	Single-Mode	9/125 µm	9/125 µm
	Multi-Mode		
Wavelength		TX: 1310 nm RX: 1550 nm	TX: 1550 nm RX: 1310 nm
Max. Distance		40 km	40 km
Power		3.3 V	3.3 V
Hot-Pluggable		•	•

[2] DEM-331R and DEM-331T used as a pair

10 Gigabit Ethernet SFP+/XFP Transceivers

Model		DEM-431XT	DEM-432XT	DEM-433XT	DEM-421XT	DEM-422XT
Standard		IEEE 802.3ae 10G BASE-SR	IEEE 802.3ae 10G BASE-LR	IEEE 802.3ae 10G BASE-ER	IEEE 802.3ae 10G BASE-SR	IEEE 802.3ae 10G BASE-LR
Form Factor		SFP+	SFP+	SFP+	XFP	XFP
Connector		Duplex LC	Duplex LC	Duplex LC	Duplex LC	Duplex LC
Fibre Type	Single-Mode		9/125 µm	9/125 µm		9/125 µm
	Multi-Mode	50/125 µm 62.5/125 µm			50/125 µm 62.5/125 µm	
Wavelength		850 nm	1310 nm	1550 nm	850 nm	1310 nm
Max. Distance		300 m	10 km	40 km	300 m	10 km
Power		3.3 V	3.3 V	3.3 V	3.3/5 V	3.3/5 V
Hot-Pluggable		•	•	•		

Redundant Power Supplies

DPS Series

Model	DPS-200	DPS-500	DPS-700
Output Power	60 W	140 W	589 W
Input Power	90 to 264 VAC	90 to 264 VAC	90 to 264 VAC
Dimensions (mm)	196 x 195 x 50	196 x 195 x 50	441 x 139 x 44
Mounting Options (see table below)	DPS-800 DPS-900	DPS-800 DPS-900	19" rack, 1U

Compatible Switches	DPS-200	DPS-500	DPS-700
DGS-1500-28P			•
DGS-3000-10TC	•		•
DGS-3120-24TC	•		
DGS-3120-24SC	•		
DGS-3120-24PC			•
DGS-3120-48TC			
DGS-3120-48PC			•
DGS-3420-28TC		•	
DGS-3420-28SC		•	
DGS-3420-28PC			•
DGS-3420-52T		•	
DGS-3420-52P			•
DGS-3620-28TC		•	
DGS-3620-28SC		•	
DGS-3620-28PC			•
DGS-3620-52T		•	
DGS-3620-52P			•
DWS-3160-24TC	•		
DWS-3160-24PC			•
DWS-4026			•

Mounting Options	DPS-800	DPS-900
No. of RPS Slots	2	8
Form Factor	19" rack, 1.5U	19" rack, 5U

Modules and Media Converters

DES, DEM and DMC Series

Modules	DEM-410CX	DEM-410X
Standard	IEEE 802.3ak 10-Gigabit Ethernet	IEEE 802.3ae 10-Gigabit Ethernet
No. of Ports	1	1
Connector	CX4 (Copper)	XFP (Fibre)
Accessories	DEM-CB100	DEM-421XT DEM-422XT
Compatibility	DGS-3426P DGS-3427 DGS-3450 DGS-3627 DGS-3627G DGS-3650 DWS-4026	DGS-3426P DGS-3427 DGS-3450 DGS-3627 DGS-3627G DGS-3650 DWS-4026

Media Converters	DMC-300SC	DMC-515SC	DMC-530SC	DMC-700SC	DMC-810SC	DMC-805X
Standards	10/100 BASE-TX 100 BASE-TX	10/100 BASE-TX 100 BASE-TX	10/100 BASE-TX 100 BASE-TX	1000 BASE-TX 1000 BASE-SX	100 BASE-TX 1000 BASE-LX	IEEE 802.3ak, IEEE-802.3ae, IEEE-802.3aq
Connectors	SC / RJ-45	SC / RJ-45	SC / RJ-45	SC / RJ-45	SC / RJ-45	CX4 – SFP+
Data Rate	100 Mbps	100 Mbps	100 Mbps	1 Gbps	1 Gbps	20Gbps
Fibre Type	Multi-Mode	Single-Mode	Single-Mode	Multi-Mode	Single-Mode	Multi-Mode
Max. Distance	2 km	15 km	30 km	550 m	10 km	80 km

Chassis and Accessories	DMC-1000	DMC-1001	DMC-1002
Description	16-Slot Media Converter Chassis with Internal Power Supply	Redundant Power Supply for DMC-1000	SNMP Management Module for DMC-1000

Power over Ethernet (PoE)Adapters

DWL and DPE Series

D-Link's Power over Ethernet (PoE) adapters are designed to help simplify network maintenance and deployments at offices, factories and Wi-Fi hot spots. These adapters allow Surveillance Cameras and Wireless Access Points to be installed on building rooftops, ceilings or high walls where wall AC outlets may be inaccessible.

DWL-P50

5/12VDC PoE Splitter

Main Features

- Use with a PoE Switch or Midspan
- Supply Power to Devices

Physical Features

- IEEE 802.3af Power over Ethernet
- Terminal Unit x 1
- 5VDC and 12VDC Output
- Output Selection via DIP Switch

DWL-P200

5/12VDC PoE Kit

Main Features

- Use without a PoE Switch
- Supply Power to Devices

Physical Features

- Base Unit x 1
- Terminal Unit x 1
- 5VDC and 12VDC Output
- Output Selection via DIP Switch

DPE-101GI

1-Port Gigabit PoE Injector

Main Features

- Use without a PoE switch
- Supply Power to Devices

Physical Features

- Terminal Unit x 1
- Max Power Input 48 V
- Gigabit Speed
- Use only with D-Link's Access Points

Business Wireless

Wireless technology provides businesses with a flexible and cost-effective way to send and receive data. D-Link's range of Wireless AC and N products provide stable connectivity which is robust enough to be deployed at the very core of your network. Products under this category include Standalone/Managed Access Points, Single Band and Dual-Band Access Points and Antennas.

Wireless AC

The World's fastest Wi-Fi technology is here!

Wireless AC is the next generation of Wi-Fi. Designed for much higher speeds, wider coverage and better sustained performance with a larger number of devices so that you get whole coverage, seamless performance on all devices and speeds that are up to four times faster!

Next generation Wi-Fi for businesses

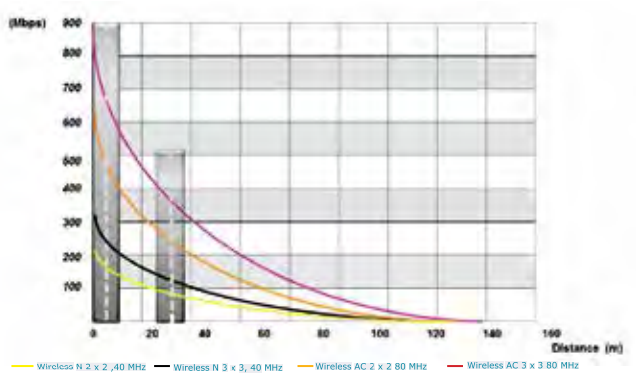
Dubbed "Wireless AC", "5G" or even "Gigabit" Wi-Fi, 802.11ac delivers up to 4* times the bandwidth of current Wireless N products with yet more to come. With the ability to handle high demand business applications, Wireless AC will revolutionise the way businesses utilise their wireless connection around the office.

Everything from sharing larger files, high definition video conferencing to real-time or scheduled data backups has been made possible with 802.11ac, thanks primarily to the move to the 5GHz radio spectrum where there is less noise and interference from competing technologies. Moreover, there's just a lot more space available in this band, allowing for up to 19 non-overlapping wireless channels compared to just three with 802.11n. Plus, those channels can be made wider to carry a lot more data with 80MHz and ultimately 160MHz channels available in 802.11ac, compared to 20/40MHz with 802.11n.

The way in which radio signals are transmitted is also changing. Out go omni-directional antennas, broadcasting every which way they can, in favour of so-called "beamforming" technology, where the signal is directed at the device it is meant for, further enhancing that 4x boost in Wi-Fi bandwidth.

Beamforming also helps to improve range and reliability. The maximum distance supported by Wi-Fi is unchanged at 200-300m, but by concentrating and directing signals, 802.11ac eliminates dead spots, and at the same time, improve signal strength and reliability at all distances.

802.11ac makes it possible to support more devices on the network at the same time, automatically adjusting the wireless signals to provide an optimised connection for each one. Plus, by delivering more data in less time, 802.11ac helps extend battery life on mobile devices, enabling you to get more done between charges.



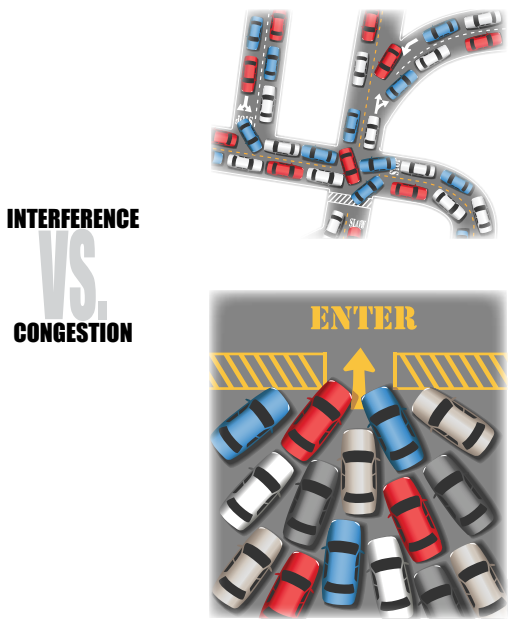
Why is it time to move from Wireless N

Interference

Most mobile devices and wireless routers currently use the 2.4 GHz frequency which slows down the data transfer rate/overall packet flow

Congestion

Congestion occurs when too many devices are accessing the router at the same time and in doing so, slows the speed of the data transfer for the entire network.



* When compared with Wireless N300.

Why Wireless AC?

Exclusive use of the 5 GHz frequency

- With so many devices connected to the 2.4 GHz frequency band, interference has reached a point where it can cripple your data flow and speed

- The 5 GHz frequency band is less common and Wireless AC uses the 5 GHz band for its transmission. With fewer devices connected you get less interference and faster speeds

Wireless AC is similar to the car speeding through the free lane

Extensibility

Future 11ac improvements will include standardised 'Beamforming' that will synchronise antenna signals for higher performance and improved Wi-Fi range.

Wider channel bandwidth

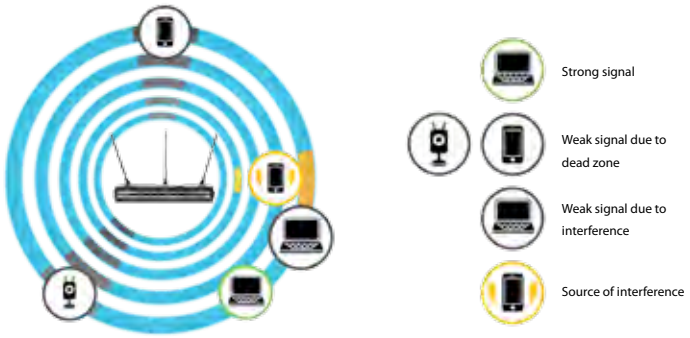
- Previous wireless standards had bands ranging from 20 MHz to 40 MHz. But with Wireless AC, the band has increased to 80 MHz, meaning a wider band for your data to pass through at faster speeds.
- It also offers non-overlapping and higher bandwidth for higher performance and reliability

Existing wireless is like cars going slowly on a 3-lane motorway

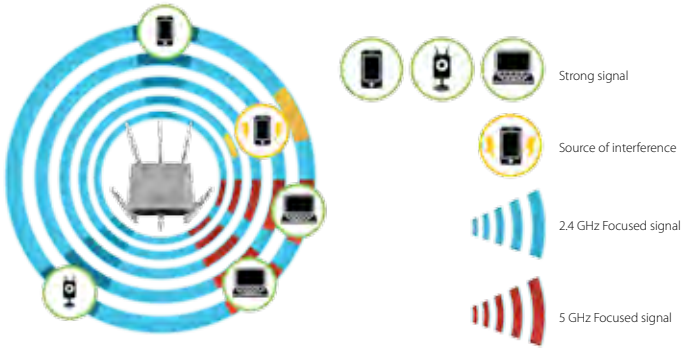
AC SmartBeam™

AC SmartBeam™ targets devices with weak reception by sending a focused signal to the device. This ensures that all the devices within your network get optimized wireless connectivity no matter where they are.

Standard Access Point



AC SmartBeam™ Router



Wireless AC is like the same amount of cars going fast on a 6-lane motorway

Range Overview

Standalone Wireless Access Points

DAP-1665

DAP-2310

DAP-2360

DAP-2553

DAP-2590

DAP-2690

DAP-2660

DAP-2695

DAP-3310

DAP-3520

DAP-3690

DWL-3200AP

Unified Wireless Access Points

DWL-2600AP

DWL-3600AP

DWL-6600AP

DWL-8600AP

DWL-8610AP

Unified Solutions: Wireless Switch and Wireless Controllers

64 ACCESS POINTS

DWS-4026

48 ACCESS POINTS

DWS-3160 Series

24 ACCESS POINTS

DWC-1000*

* DWC-1000 supports 6 Access Points as standard and can be upgraded to 24 Access Points through license upgrade
DWS-3160 supports 12 Access Points as standard and can be upgraded to 48 Access Points through license upgrade

Network Adapters

DWA-182

DWA-171

Standalone Wireless Access Points

DAP Series

Wireless technology offers businesses more flexible and inexpensive ways to send and receive data. D-Link has a range of robust wireless access points able to work in both 2.4GHz and 5GHz frequencies. Backwards compatible with all Wi-Fi technologies, our wireless range includes the latest dual-band Wireless AC devices that are plenum-rated for mounting on walls and ceilings. Robust enough to be deployed at the very core of your network, they give greatly enhanced reliability and coverage, and include advanced security features to keep you completely safe from intrusion.

dlink green

Energy Efficient Ethernet

DAP-1665

Wireless AC1200 Dual-Band Access Point

Wireless AC

- The latest 802.11ac technology delivers combinedspeeds of up to 1200 Mbps, with increased range to reach more places in your office.
- Can operate as an access point, bridge, bridge with access point, repeater or wireless client, giving the flexibility to tailor it to your network needs.
- Complete set of security encryption standards including WEP, WPA/WPA2, and WPS to safeguard your network against outside intruders
- Gigabit Ethernet port for the fastest wired speeds

DAP-2310

Wireless N Access Point

- 802.11n connectivity for increased network capacity
- Up to 300 Mbps wireless speeds
- Four products in one: access point, wireless client, WDS, WDS with AP
- Gigabit Ethernet port for the fastest wired speeds
- Multiple SSID for wireless network segmentation
- VLAN support
- WMM (Wireless Multi Media) to prioritise audio, video and voice applications
- Enhanced security with RADIUS support
- High power radio design

DAP-2360

Wireless N PoE Access Point

- Allows network administrators to deploy a highly manageable and extremely robust 802.11n wireless network
- High power single radio design of the antennas reduces dead spots and increase capacity.
- The antennas are detachable and provide optimal wireless coverage in the 2.4GHz (802.11g and 802.11n) band
- Up to 300Mbps wireless Speeds
- PoE Support for convenient installation

DAP-2553

Wireless N300 Dual-Band PoE Access Point

- Selectable dual-band connectivity for increased network capacity
- Ideal for indoor deployments
- Periodical key change in WPA/WPA2-Personal
- Four products in one: access point, wireless client, WDS, WDS with AP

DAP-2590

Wireless N Dual-Band PoE Access Point

- Selectable dual-band connectivity for increased network capacity
- Enjoy wireless speeds of up to 300 Mbps in either 2.4 GHz and 5 GHz wireless bands.
- Multiple operational modes as access point, wireless client, WDS, WDS with AP
- Rugged metal plenum-rated housing
- Enhanced network security features with NAP support
- PoE support for one cable installation
- Easy management

DAP-2690

Wireless N Simultaneous Dual-Band PoE Outdoor Access Point

- Simultaneous dual-band for high-performance wireless connection
- Enjoy wireless speeds of up to 300 Mbps in both 2.4 GHz and 5 GHz wireless bands
- Load balancing with band steering to provide more stable and faster wireless connection
- Multiple operational modes as access point, wireless client, WDS, WDS with AP
- Rugged metal plenum-rated housing
- Enhanced network security features with NAP support
- PoE support for one cable installation
- Easy management

Standalone Wireless Access Points

Model	DAP-1665	DAP-2310	DAP-2360	DAP-2553	DAP-2590	DAP-2690
Wired Standards						
IEEE 802.3 10BASE-T	•	•	•	•	•	•
IEEE 802.3u 100BASE-TX	•	•	•	•	•	•
IEEE 802.3ab 1000BASE-T	•	•	•	•	•	•
Wireless Standards						
IEEE 802.11a				•	•	•
IEEE 802.11g	•	•	•	•	•	•
IEEE 802.11n	•	•	•	•	•	•
IEEE 802.11ac	•					
Bandsteering support'						•
Simultaneous Dual-Band	•					•
Operation Modes						
AP Client Mode	•	•	•	•	•	•
Bridge (WDS) Mode	•	•	•	•	•	•
Bridge with AP Mode	•	•	•	•	•	•
Antenna Features						
No. of Antennas	2	2	2	3	3	4
Gain	2 dBi for 2.4GHz 2 dBi for 5GHz	2 dBi for 2.4GHz	5 dBi for 2.4GHz	3 dBi for 2.4 Ghz a 5 dBi for 5 Ghz	4 dBi for 2.4GHz 6 dBi for 5GHz	4 dBi for 2.4GHz 6 dBi for 5GHz
Detachable	•	•	•	•	•	•
Dipole Antenna	•	•	•	•	•	•
Authentication Features						
64/128-Bit WEP	•	•	•	•	•	•
WPA/WPA2-PSK	•	•	•	•	•	•
WPA/WPA2-EAP	•	•	•	•	•	•
TKIP/AES	•	•	•	•	•	•
802.1X User Authentication		•	•	•	•	•
Security Features						
MAC Address Filtering	•	•	•	•	•	•
SSID Broadcast Disable	•	•	•	•	•	•
Rogue AP Detection		•	•	•	•	•
WLAN Partition	•	•	•	•	•	•
802.1Q VLAN		•	•	•	•	•
Multiple SSIDs for Network Segmentation		•	•	•	•	•
Grouping Features						
Load Balancing		•	•	•	•	•
Link Integrity		•	•	•	•	•
User Limit	•	•	•	•	•	•
QoS Features						
WMM (WiFi Multimedia)	•	•	•	•	•	•
Networking Features						
Auto-Channel Scan	•	•	•	•	•	•
Auto-Power Adjustment						
Management Features						
SNMP		•	•	•	•	•
D-View		•	•	•	•	•
AP Manager Utility		•	•	•	•	•
Configuration through Array		•	•	•	•	•
Telnet		•	•	•	•	•
SSH		•	•	•	•	•
Management via Wireless Controller						
Installation Features						
For Outdoor Usage						
802.3af Power over Ethernet			•	•	•	•
PoE Injector Included						•

Standalone Wireless Access Points

DAP and DWL Series

Wireless technology offers businesses more flexible and inexpensive ways to send and receive data. D-Link has a range of robust wireless access points able to work in both 2.4GHz and 5GHz frequencies. Backwards compatible with all Wi-Fi technologies, our wireless range includes the latest dual-band Wireless AC devices that are plenum-rated for mounting on walls and ceilings. Robust enough to be deployed at the very core of your network, they give greatly enhanced reliability and coverage, and include advanced security features to keep you completely safe from intrusion.

dlink green

Energy Efficient Ethernet

DAP-2660

Wireless AC1200 Simultaneous Dual-Band PoE Access Point

Wireless AC

- Harness the power of Wireless AC, enjoying combined wireless speeds of up to 1200 Mbps, perfect for high demand business applications
- Enhanced dual-band performance with band steering to provide a faster and more stable wireless connection
- Maintain a secure network with a range of features including WPA/WPA2, Wireless LAN segmentation and VLAN support
- Configure to use as an access point, a wireless distribution system (WDS) with access point, a WDS/bridge, or a wireless client

DAP- 2695

Wireless AC1750 Simultaneous Dual-Band PoE Access Point

Wireless AC

- Super-fast Wireless AC Performance- Latest Wireless AC technology, fully backwards compatible with existing Wi-Fi standards
- Flexible simultaneous dual-band technology with band steering that automatically makes use of the less crowded 5 GHz frequency
- Enhanced network security and access control features, as well as wireless segmentation
- Flexible Operation

DAP-3310

Wireless N PoE Outdoor Access Point with PoE Pass-Through

- Built to withstand harsh environments with weatherproof IPX6 standard
- Allows for flexible installation as well as supplies additional power to another PoE powered device such as an Video Surveillance camera
- Multiple operational modes including access points, WDS, WDS with AP, wireless client, wireless repeater, WISP client router or WISP repeater.
- Long distance wireless networking with WDS and WISP.
- Secure wireless connectivity with WAP/ WPA2.

DAP-3520

Wireless N Dual-Band PoE Outdoor Access Point

- Connect wirelessly with speeds of up to 300 Mbps using the Wireless N (802.11n standard).
- Provides the option to switch between 2.4 GHz and 5 GHz bands, giving more flexibility when setting up and optimising your wireless network.
- Fully backwards compatible with legacy 802.11a/b/g devices that work with either 2.4 GHz or 5 GHz bands

DAP-3690

Wireless N Simultaneous Dual-Band PoE Outdoor Access Point

- Concurrent dua-band 802.11n connectivity
- IP67 rated housing with built-in heater and sensor
- Supports up to 16 SSIDs (8 per radio)
- Enterprise security and management
- Internal and external RADIUS support
- 802.3at Power over Ethernet (PoE) support
- Multiple operational modes, use as AP, WDS, WDS with AP, wireless client

DWL-3200AP

Wireless PoE Access Point

- Powerful and reliable wireless access point for business-class enterprise environments
- Up to 108 Mbps wireless speed
- Integrated 802.3af Power over Ethernet (PoE)
- Advanced wireless security and network management
- WDS (Wireless Distribution System) support

Standalone Wireless Access Points

Model	DAP-2660	DAP-2695	DAP-3310	DAP-3520	DAP-3690	DWL-3200AP
Wired Standards						
IEEE 802.3 10BASE-T	•	•	•	•	•	•
IEEE 802.3u 100BASE-TX	•	•	•	•	•	•
IEEE 802.3ab 1000BASE-T	•	•		•	•	
Wireless Standards						
IEEE 802.11a	•	•		•	•	
IEEE 802.11g	•	•	•	•	•	•
IEEE 802.11n	•	•	•	•	•	
IEEE 802.11ac	•	•				
Simultaneous Dualband	•	•			•	
Operation Modes						
AP Client Mode	•	•	•	•	•	•
Bridge (WDS) Mode	•	•	•	•	•	•
Bridge with AP Mode	•	•	•	•	•	•
Antenna Features						
No. of Antennas	6	6			4	2
Gain	Two 3 dBi for 2.4 GHz Two 4 dBi for 5 GHz	Three 4 dBi for 2.4 GHz Three 6 dBi for 5 GHz	10 dBi for 2.4 GHz	8 dBi for 2.4Ghz 10 dBi for 5Ghz	5 dBi for 2.4Ghz 7 dBi for 5Ghz	5 dBi for 2.4 GHz
Detachable		•		•	•	•
Dipole Antenna	•	•		•	•	•
Embedded Antenna	•		•	•		
Authentication Features						
64/128-Bit WEP	•	•	•	•	•	•
WPA/WPA2-PSK	•	•	•	•	•	•
WPA/WPA2-EAP	•	•	•	•	•	•
TKIP/AES	•	•	•	•	•	•
802.1X User Authentication	•	•	•	•	•	•
Security Features						
MAC Address Filtering	•	•	•	•	•	•
SSID Broadcast Disable	•	•	•	•	•	•
Rogue AP Detection	•	•	•	•	•	•
WLAN Partition	•	•	•	•	•	•
802.1Q VLAN	•	•	•	•	•	•
Multiple SSIDs for Network Segmentation	•	•	•	•	•	•
Grouping Features						
Load Balancing	•	•		•	•	•
Link Integrity	•	•		•	•	•
User Limit	•	•		•	•	•
QoS Features						
WMM (WiFi Multimedia)	•	•	•	•	•	•
Networking Features						
Auto-Channel Scan	•	•	•	•	•	•
Auto-Power Adjustment					•	
Management Features						
SNMP	•	•	•	•	•	•
D-View	•	•		•	•	•
AP Manager Utility	•	•		•	•	•
Configuration through Array	•	•			•	•
Telnet	•	•	•	•	•	•
SSH	•	•		•	•	•
Management via Wireless Controller						
Installation Features						
For Outdoor Usage			•	•	•	
802.3af Power over Ethernet	•			•		•
802.3at Power over Ethernet		•			•	
PoE Injector Included	•	•	•	•	•	
PoE Pass-through			•			

Unified Wireless Access Points

DWL Series

D-Link Unified Wireless Access Points are highly manageable and scalable with high data transmission speeds, optional support for Power over Ethernet and advanced security features.

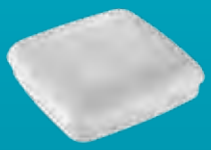
Managed Mode
- Centralised Management
- Centralised Firmware Dispatch
- Auto-Power Adjustment
- Dynamic Auto-Channel Selection
- L2 Fast Roaming
- L3 Fast Roaming
- Captive Portal

Standalone Mode
- Local Storage of Configuration

Managed and Standalone Mode
- WEP/WPA/WPA2 Security
- Rogue AP Detection
- Station Isolation
- MAC Address Filtering
- AP Load Balancing Setup
- Wi-Fi Multimedia (WMM)
- SpectraLink Voice Priority
- Local Storage of Configuration

DWL-2600AP

Unified Wireless N PoE Access Point



- Wireless performance of up to 300 Mbps network throughput
- Self-configuring cluster enables easier provisioning
- Up to 16 virtual Access Points may be created from a single unit
- Load balancing - to optimise high network traffic volume and redundancy
- Supports the latest standards in Wi-Fi security

DWL-3600AP

Unified Wireless N PoE Access Point

- Expand a Wi-Fi network to cover a larger area
- Load balancing to optimise high network traffi c volume and redundancy
- 802.11n connectivity for increased network capacity
- Supports the latest standards in W-Fi security
- To identify and track assets equipped with an Aeroscout Radio Frequency ID (RFID) tag.

DWL-6600AP

Unified Wireless N Simultaneous Dual-Band PoE Access Point

- Concurrent dual-band - works in 2.4 GHz and 5 GHz simultaneously
- Flexible deployment, stand-alone or centrally managed by a wireless controller
- Wireless performance of up to 300 Mbps network throughput in each band
- Self-configuring cluster enables easier provisioning
- Up to 32 Virtual Access Points (VAP) can be created from a single device
- Automatic load-balancing among neighbouring access point
- Flexible Quality of Service (QoS) with Wi-Fi MultiMedia (WMM)

DWL-8600AP

Unified Wireless N Simultaneous Dual-Band PoE Access Point

- Green technology for advanced power saving
- Supports advanced wireless functions
- Flexible dual-band wireless connectivity
- Optimal wireless performance
- Total security & Quality of Service(QoS)

DWL-8610AP

Unified Wireless AC1750 Dual-Band Access Point

- Harness the power of Wireless AC, enjoying combined wireless speeds of up to 1750 Mbps, perfect for high demand business applications
- Enhanced dual-band performance band steering to provide a faster and more stable wireless connection
- AC SmartBeam™ technology greatly improves wireless performance by focusing wireless signals, providing wider wireless coverage without the need for additional access points.

Unified Wireless Access Points

Model	DWL-2600AP	DWL-3600AP	DWL-6600AP	DWL-8600AP	DWL-8610AP
Wired Standards					
IEEE 802.3 10BASE-T	•	•	•	•	•
IEEE 802.3u 100BASE-TX	•	•	•	•	•
IEEE 802.3ab 1000BASE-T		•	•	•	•
Wireless Standards					
IEEE 802.11a		•	•	•	•
IEEE 802.11g	•	•	•	•	•
IEEE 802.11n	•	•	•	•	•
IEEE 802.11ac					•
Simultaneous Dual-Band			•	•	•
Operation Modes					
AP Client Mode					
Bridge (WDS) Mode	•	•	•	•	•
Bridge with AP Mode	•	•	•	•	•
Antenna Features					
No. of Antennas	Internal	Internal	Internal	4	Internal
Gain	3 dBi for 2.4GHz	4.7 dBi for 2.4GHz	5 dBi for 2.4 Ghz 6 dBi for 5 Ghz	4 dBi for 2.4 Ghz 6 dBi for 5 Ghz	5 dBi for 2.4 Ghz 6.5 dBi for 5 Ghz
Detachable			Connectors for external antennas	•	
Dipole Antenna	•	•	•	•	•
Embedded Antenna	•	•	•		•
Authentication Features					
64/128-Bit WEP	•	•	•	•	•
WPA/WPA2-PSK	•	•	•	•	•
WPA/WPA2-EAP	•	•	•	•	•
TKIP/AES	•	•	•	•	•
802.1X User Authentication	•	•	•	•	•
Security Features					
MAC Address Filtering	•	•	•	•	•
SSID Broadcast Disable	•	•	•	•	•
Rogue AP Detection	•	•	•	•	•
WLAN Partition	•	•	•	•	•
802.1Q VLAN	•	•	•	•	•
Multiple SSIDs for Network Segmentation	•	•	•	•	•
Grouping Features					
Load Balancing	•	•	•	•	•
Link Integrity	•	•	•	•	•
User Limit	•	•	•	•	•
QoS Features					
WMM (WiFi Multimedia)	•	•	•	•	•
Network Features					
Auto-Channel Scan	•	•	•	•	•
Auto-Power Adjustment		•	•	•	•
Management Features					
SNMP	•	•	•	•	•
D-View		•	•	•	•
AP Manager Utility	•	•	•	•	•
Configuration through Array	•	•	•	•	•
Telnet	•	•	•	•	•
SSH	•	•	•	•	•
Management via Wireless Controller/ Unified Switch	•	•	•	•	•
Supported D-Link Wireless Controller/ Unified Switch models	DWC-1000, DWS-3160, DWS-4026	DWC-1000, DWS-3160, DWS-4026	DWC-1000, DWS-3160, DWS-4026	DWC-1000, DWL-3024/3024L, DWS-3160, DWS-4026	DWC-1000, DWS-3160, DWS-4026
Installation Features					
For Outdoor Usage					
802.3af Power over Ethernet	•	•	•	•	•
PoE Injector Included				•	

Unified Wired/Wireless Access System

DWS-3160 Series

The DWS-3160 is D-Link's latest Unified L2+ Gigabit Wired/Wireless Switch. Designed to be the ideal mobility solution for businesses, the DWS-3160 empowers administrators to exercise total control over their wireless networks by centralising all aspects of provisioning and management. Able to manage up to 48 D-Link Unified Access Points by itself andup to 192 in a switch cluster, the DWS-3160 can be configured to act either as a Wireless Controller in the core network, or as an L2+ Gigabit Switch at the edge, enabling it to be seamlessly integrated into any existing network infrastructure

Unified Switches

Wireless Management

- Management of up to 12 Access Points per switch
- Upgrade licenses for up to 48 Access Points per switch
- Up to 192 APs per Switch Cluster
- Automatic AP RF Channel Adjustment
- Automatic AP Transmit Output Power Adjustment
- Centralised AP Firmware Upgrade

Optional Accessories

Optional Software Image Upgrade Licenses

DWS-316024TCAP12-LIC	DWS-3160-24TC addtional 12 access points support license
DWS-316024TCAP24-LIC	DWS-3160-24TC addtional 24 access points support license
DWS-316024PCAP12-LIC	DWS-3160-24PC addtional 12 access points support license
DWS-316024TCAP24-LIC	DWS-3160-24PC addtional 24 access points support license

Optional Redundant Power Supplies

DPS-200	60W redundant power supply for DWS-3160-24TC
DPS-700	589W redundant power supply For DWS-3160-24PC

SFP transceivers

DEM-210	100Base-FX, Single-mode, 15 km
DEM-211	100Base-FX, Multi-mode, 2 km
DEM-310GT	1000Base-LX, Single-mode,10 km
DEM-311GT	1000BaseLX ,Multi-mode, 550 m
DEM-312GT2	1000Base-LX ,Multi-mode, 2 km
DEM-314GT	1000Base-LX , Single-mode, 50 km
DEM-315GT	1000Base-LX ,Single-mode, 80 km

WDM SFP transceivers

DEM-331T	1000Base-LX, 1550 mm, 1310 mm, 40 km
DEM-331R	1000Base-LX, 1310 mm, 1550 mm, 40 km

Optional Management Software

DV-600S	D-View 6.0 Network Management Software Standard Edition
DV-600P	D-View 6.0 Network Management Software Professional Edition

Unified Switches
DWS- 3160 -24TC

- 10/100/1000Base-T port x 20
- Combo 10/100/1000BASE-T/SFP port x 4
- Console (RJ-45) port x 1
- Management of up to 12 access points per switch
- Upgrade licenses for up to 48 access points per switch
- Up to 192 APs per switch cluster
- Automatic AP transmit output power adjustment

DWS- 3160 -24PC

- 10/100/1000Base-T PoE port x 20
- Combo 10/100/1000BASE-T/SFP port x 4
- Console (RJ-45) port x 1
- 802.3af and 802.3at PoE/PoE+ support
- 370W PoE power budget (760W with DPS-700 RPS)
- Management of up to 12 access points per switch
- Upgrade licenses for up to 48 access points per switch
- Up to 192 APs per switch cluster
- Automatic AP transmit output power adjustment

Model		DWS-3160-24TC	DWS-3160-24PC
Port Interface	10/100/1000BASE-T (RJ-45)	20	
	Combo 1000BASE-T/SFP	4	
General Features	Switching Capacity	48 Gbps	
	Maximum Forwarding Rate	35.71 Mpps	
	Forwarding Mode	Store and Forward	
	Packet Buffer Memory	2 MB	
	MTBF	561,829 hours	282,541 hours
	Console Port	RJ-45	
WLAN Management Capability		Centralised	
Roaming		Fast Roaming; Intra-Switch/Inter-Switch Roaming ; Intra-Subnet/Inter-Subnet Roaming	
Access Control and Bandwidth Management		Up to 32 SSIDper AP (16 SSIDperfrequency band) ; AP Load Balancing based on the number of users or AP utilisation ; Flexible Mapping Schemes	
Managed Access Point		DWL-2600AP, DWL-3600AP, DWL-6600AP, DWL-8600AP, DWL-8610AP;	
AP Management		AP Auto-Discovery; Remote AP Reboot; AP Monitoring: List Managed AP, Rogue AP,Authentication Failed AP ; Client Monitoring: List clients associated with each Managed AP ; d-hoc Client Monitoring; AP Authentication Supporting Local Database and External RADIUS Server ; Centralised RF/Security PolicyManagement ; Automatic AP RF Channel Adjustment; Automatic APTransmitOutput Power Adjustment ;Centralised Firmware Upgrade	
WLAN Security		AP Auto-Discovery; Remote AP Reboot; AP Monitoring: List Managed AP, Rogue AP,Authentication Failed AP ; Client Monitoring: List clients associated with each Managed AP ; d-hoc Client Monitoring; AP Authentication Supporting Local Database and External RADIUS Server ; Centralised RF/Security PolicyManagement ; Automatic AP RF Channel Adjustment; Automatic APTransmitOutput Power Adjustment ;Centralised Firmware Upgrade	
L2 Features		MAC addresstable: 16K; IGMP Snooping ;MLDSnooping ;802.1D/w/s SpanningTree ;802.3ad Link Aggregation; 802.1ab LLDP; Port Mirroring(One-to-One and Many-to-One) Jumbo Frame Size: Up to 13 KB	
Virtual LAN (VLAN)		StaticVLANgroups: 3,965 ; 802.1qVLANTagging ;802.1v ;Subnet-basedVLAN ;MAC-basedVLAN ; GVRP ; DoubleVLAN ; VoiceVLAN	
L3 Features		IPv4/v6 Static Route; RoutingTable Size: 512 Static Routes ; VRRP ;ARP Proxy	
Quality of Service (QoS)		VoiceVLAN;Wireless Multimedia (WMM);802.1p PriorityQueues ;CoS-basedQoS;Per-Flow Bandwidth Control ; Per-PortTraffic Shaping ;MinimumBandwidth Guarantee	
Access Control List (ACL)		ACL Based on: Switch Port, MAC Address, 802.1p Queues, VLAN, Ether Type, DSCP, IP Address, Protocol Type, TCP/UDP Port	
LAN Security		RADIUS Authentication Management Access; TACACS+ Authentication for Management Access ; SSH& SSL Support ; MAC Filtering ; 802.1x Port-based Access Control & GuestVLAN ;Denial of Service Protection; Dynamic ARP Inspection ; Protected Port ; Broadcast StormControl; Access Control List	
Management Methods		Management of up to 12 Access Points perswitch; Upgrade licensesfor up to 48 Access Points perswitch; Up to 192 APs per Switch Cluster; Single IP Management(SIM); SSH ;SSL; SNMP v1, 2c, 3; sFlow ; Dual Image Support; Web GUI; Command Line Interface	
Physical and Environment	Dimension	440 x 210 x 44 mm	440 x 310 x 44 mm
	Weight	2.55 kg	5.24 kg
	Max. Power Consumption	37.7 W	467 W (full PoE load)
	PoE		802.3af (370 W power budget, 740 W with DPS-700)
	RPS	DPS-200	DPS-700
	Temperature	0 to 50°C (Operating); -40 to 70°C (Storage)	
	Humidity	10 to 90% RH (Operating); 5 to 90% RH (Storage) Non-condensing	
Certification	EMI-EMC	FCC Class A, CE ; ICES-003, C-Tick,VCCI	
	Safety	UL/cUL; CB	

Unified Wired/Wireless Access System

DWS-4026

D-Link's next generation L2+ Unified Wired/Wireless Switching Solution consists of a Gigabit switch with an array of advanced features and 802.11u support. It is a full-featured and cost-effective mobility solution for businesses. It enables network administrators to have control, security, redundancy and reliability needed to scale and manage the wireless networks easily and efficiently.

Wireless Management

- L2/L3 Fast Roaming
- Intra-Switch/Inter-Switch Roaming
- Centralised Security Policy/AP/Client Management and Monitoring
- Adaptive Wireless
- Automatic RF Channel Adjustment
- Automatic AP Transmit Output Power Adjustment
- AP-AP Tunnel
- AP Load Balancing
- AP Auto-Discovery and Firmware Dispatch
- AP Authentication
- RF Self-Healing
- Auto-VoIP
- Wi-Fi Multimedia (WMM)
- SpectraLink Voice Priority (SVP)
- Remote AP Reboot
- Visualised AP Management Tool
- Wireless Intrusion Detection and Prevention System (WIDS/WIPS)
- Rogue AP/Client Detection and Mitigation
- WPA/WPA2 Personal/Enterprise
- Captive Portal
- Station Isolation

Wired Management

- Internet Group Management Protocol (IGMP) Snooping
- Link Layer Discovery Protocol (LLDP)
- LLDP-Media Endpoint Discovery (LLDP-MED)
- Double VLAN (Q-in-Q)
- Selective Q-in-Q
- Subnet-Based VLAN
- IPv4 Static Route
- Routing Information Protocol (RIP)
- Virtual Router Redundancy Protocol (VRRP)
- Routing Information Protocol (RIP)
- Quality of Service (QoS)
- Traffic Shaping
- Bandwidth Control
- Access Control List
- 802.1X Port-Based Access Control
- Guest VLAN
- Broadcast Storm Control

Optional Accessories

Modules

DEM-410X	1-Port 10G XFP Module
DEM-410CX	1-Port 10G CX4 Module

10-Gigabit Ethernet XFP Transceivers

DEM-421XT	10GBASE-SR, MMF, 300m
DEM-422XT	10GBASE-LR, SMF, 10km

Gigabit Ethernet SFP Transceivers

DEM-310GT	1000BASE-LX, SMF/MMF, 10km/2km
DEM-311GT	1000BASE-SX, MMF, 550m
DEM-312GT2	1000BASE-SX, MMF, 2km
DEM-314GT	1000BASE-LH, SMF, 50km
DEM-315GT	1000BASE-ZX, SMF, 80km

Gigabit Ethernet WDM SFP Transceivers

DEM-331T/R	1000BASE-BX, SMF, 40km

Optional Management Software

DV-600S	D-View 6.0 Network Management Software Standard Edition
DV-600P	D-View 6.0 Network Management Software Professional Edition

Unified Switch DWS-4026

- 10/100/1000Base-T PoE port x 20
- Combo 10/100/1000BASE-T/SFP port x 4
- 10G expansion slot x 2
- Redundant power supply support
- Up to 256 APs per cluster/peer group

Model		DWS-4026
IEEE LAN Standard		802.3; 802.3u; 802.3z; 802.3ab; 802.3ae; 802.3af
Port Interface	10/100/1000BASE-T (RJ-45)	20 (PoE)
	Combo 1000BASE-T/SFP	4
	10 GbE Slot	2
	XFP Module	DEM-410X
	CX4 Module	DEM-410CX
Stackability	Physical Stack	Via CX4/XFP Module; Duplex Chain/Ring Topology; Bi-Directional Redundant Stacking Topology; Up to 40 Gbps (Full Duplex); Up to 12 Units per Stack
General Features	Switch Capacity	88 Gbps
	Forwarding Rate	65.47 Mpps (Maximum)
	Forwarding Mode	Store and Forward
	Buffer Memory	750 KB
	MTBF	185,540 Hours
	Console Port	Female RS-232 DB-9 Console for Out-of-Band Configuration
WLAN Management Capability		Max. 64 APs per Switch; Max. 256 APs per Cluster; Max. 2048 Wireless Users (1024 Tunneled, 2048 Non-Tunneled)
Roaming		Fast Roaming (Wireless Adapter needs to support too); Intra-Switch / Inter-Switch Roaming; Intra-Subnet / Inter-Subnet Roaming; AP-AP-Tunnel
Access Control and Bandwidth Management		Max. 32 SSID per AP (16 SSID per RF Frequency Band); AP Load Balancing Based on the No. of Users or Utilisation per AP
Managed Access Point		DWL-2600AP, DWL-3600AP, DWL-6600AP, DWL-8600AP, DWL-8610AP
AP Management		AP Auto-Discovery; Remote AP Reboot; AP Monitoring: List Managed AP, Authentication Failed AP, Rogue AP; Ad-Hoc Clients Monitoring; Client Monitoring: List Clients Associated with Each Managed AP; AP Authentication Supporting Local Database and External RADIUS Server; Centralised RF/Security Policy Management; Visualised AP Management Tool (Support up to 16 JPG Files); Unified AP Support (DWL-8600AP): Managed/Standalone Mode
WLAN Security		Wireless Intrusion Detection and Prevention System (WIDS); Rogue AP Mitigation; 64/128-Bit WEP Data Encryption; Rogue and Valid AP Classification Based on MAC Address; WPA Personal/Enterprise; WPA2 Personal/Enterprise; Wireless Station and AP Monitoring on RF Channel, MAC Address, SSID, Time; Captive Portal; Station Isolation; Encryption Type Support: WEP, WPA, Dynamic WEP, TKIP, AES-CCMP, EAP-FAST, EAP-TLS, EAP-TTLS, EAP-MD5, PEAP-GTC, PEAP-MS-CHAPv2, PEAP-TLS; MAC Authentication
L2 Features		MAC Address Table Size: 8 K Entries; IGMP Snooping: 1 K Multicast Groups; MLD Snooping; 802.1D STP, 802.1s Rapid STP, 802.1w Multiple STP; 802.3ad Link Aggregation: Max. 32 Groups, Max. 8 Ports per Group; Jumbo Frame: Max. 9 KBytes; 802.1ab Link Layer Discovery Protocol (LLDP); LLDP-MED; Port Mirroring: One-to-One, Many-to-One; Flow Control: 802.3x in Full Duplex, Back Pressure in Half Duplex, Head-of-Line Blocking Prevention
Virtual LAN (VLAN)		802.1Q Tagged VLAN; 802.1v Protocol VLAN; VLAN Groups: Max. 3,965 Entries; Subnet-Based VLAN; GARP VLAN Registration Protocol (GVRP); MAC-Based VLAN; Double VLAN; Voice VLAN
L3 Features		IPv4 Static Route; Routing Table Size: Max. 128 Static Routes; Floating Static Route; Proxy Address Resolution Protocol (ARP); Virtual Router Redundancy Protocol (VRRP); Routing Information Protocol (RIP) v1/v2
Quality of Service (QoS)		802.1p Priority Queues (Max. 8 Queues per Port); Auto-VoIP; Minimum Bandwidth Guarantee per Queue; Traffic Shaping per Port; Per-Flow Bandwidth Control; CoS Based on: Switch Port, VLAN, DSCP, TCP/UDP Port, TOS, Dest/Source MAC Address, Dest/Source IP Address
Access Control List (ACL)		ACL Based on: Switch Port, MAC Address, 802.1p Queues, VLAN, Ether Type, DSCP, IP Address, Protocol Type, TCP/UDP Port
LAN Security		RADIUS and TACACS+ Authentication for Management Access; Secure Shell (SSH) v1/v2; Secure Sockets Layer (SSL) v3; Transport Layer Security (TLS) v1; MAC Filtering; Denial of Service Protection; Dynamic ARP Inspection (DAI); Port Security: 20 MAC per Port, Port Violation Notification; 802.1X Port-Based Access Control and Guest VLAN; Broadcast Storm Control in Granularity of 1% of Link Speed; DHCP Snooping; Protected Port; DHCP Filtering
Management Methods		Web-Based GUI; Switch Clustering; RADIUS Accounting; Command Line Interface (CLI); Telnet Client; TFTP Client; Telnet Server: Max. 5 Sessions; sFlow; BootP/DHCP Client; DHCP Server; DHCP Relay; Dual Images; Port Description; Multiple Configuration Files; Dual Image Services; Simple Network Management Protocol (SNMP) v1/v2c/v3; Remote Monitoring (RMON) v1; Simple Network Time Protocol (SNTP); System Log
Physical and Environment	Dimension	19-inch; 1U Rack-Mount; 440 x 389 x 44 mm (W x D x H)
	Weight	6 Kg
	Power Input	Input: 100-240 VAC, 50/60Hz; Internal Universal Power Supply
	Max. Power Consumption	525 W (With All PoE Ports in Operation)
	PoE	802.3af (370 W power budget)
	RPS	DPS-600
	Temperature	0 to 40°C (Operating); -10 to 70°C (Storage)
	Humidity	10% to 90% RH (Operating); 5% to 90% RH (Storage) Non-condensing
Certification	EMI-EMC	FCC Class A; CE; VCCI; C-Tick; ICES-003; EN 60601 1-2
	Safety	UL/cUL; CB

Wireless Controller

DWC-1000

The DWC-1000 Wireless Controller is a centralised wireless LAN manager developed specifically for businesses that are looking for an easy to use, scalable solution to manage and configure their wireless network.

With the ability to manage up to six wireless Access Points (upgradable to 24) and a maximum of 96 wireless Access Points in a Controller Cluster, the DWC-1000 is a cost-effective mobility solution for businesses. Its auto-managed AP discovery and single point management allow customers to acquire an enterprise class system without the burden of executing massive and complex configurations. With a robust and comprehensive security detection system, the DWC-1000 also enables managed APs to block potential attacks from unauthorised users and devices, especially for wireless environments.

- Integrated appliance for centralised wireless network management
- Integrates seamlessly in any network infrastructure – no modifications required
- An ideal solution to move to Wireless N from legacy technologies
- Upgrade licenses – pay only for the functionality that you need
- Support for 6 Access Points; upgradeable to 24 Access Points
- Three Access Point models available, supporting every wireless standard
- Up to 4 Wireless Controllers in a cluster, to manage up to 96 Access Points centrally
- Dynamic wireless network adjustment to ensure top performance at all times
- Can be connected directly to the Internet – ideal for branch offices
- Upgrade licenses available for extra VPN and Firewall functionality
- Easy to use Web interface and straightforward configuration
- USB port for file and printer sharing
- Enhanced security with Captive Portal and RADIUS support

Optional Accessories

Upgrade licenses:

DWC-1000-VPN-LIC	DWC-1000 additional 6 access points support license
DWC-1000-6AP-LIC	DWC-1000 VPN Security license

Optional Management Software

DV-600S	D-View 6.0 Network Management Software Standard Edition
DV-600P	D-View 6.0 Network Management Software Professional Edition

DWC -1000

- 10/100/1000Base-T option (WAN) ports x 2
- 10/100/1000Base-T LAN port x 4
- USB 2.0 port x 2
- Up to 24 APs per cluster
- Upgrade to 96 APs per cluster

Model		DWC-1000
Interface	Ethernet	2 10/100/1000 Option (WAN) Ports[3] 4 10/100/1000 LEON Ports
	USB	2 USB 2.0 Ports
	Console	RJ-45
Capacity and Performance	Maximum Access Points per Unit (default/ upgrade)	6/ 24[1]
	Maximum Access Points per Cluster (default/ upgrade)	24/ 96[1]
	Concurrent Captive Portal Authentication Users (Wired/ Wireless)	124/ 400
	Dedicated IPSec VPN Tunnels[2]	70
	Dedicated PPTP/ L2TP VPN Tunnels[2]	25
	Dedicated SSL VPN Tunnels[2]	20
Access Point Management	Compatible Managed APs	DWL-2600AP, DWL-3600AP, DWL-6600AP, DWL-8600AP, DWL-8610AP
	AP Discovery & Control	Layer-2 Layer-3
	AP Monitoring	Managed AP Rogue AP Authentication Fail AP Standalone AP
	Client Monitoring	Authenticated Client Rogue Client Authentication Fail Client Ad-hoc Client
	Centralised RF/Security Policy Management	•
Roaming	Fast Roaming	•
	Intra-controller/Inter-controller Roaming	•
	Intra-subnet/Inter-subnet Roaming	•
Security	Wireless Security	WEP Dynamic WEP WPA Personal/ Enterprise WPA2 Personal/ Enterprise
	Wireless Instruction Detection & Prevention System (WIDS)	Rogue and Valid AP Classification Rogue AP Mitigation
	LAN Security	802.1x Port-Based Access Control and Guest VLAN
	Authentication	Captive Portal MAC Authentication
VLAN	VLAN Group	Up to 255 Entries
	802.1q VLAN Tagging	•
	Subnet-Based VLAN	•
	Port-Based VLAN	•
Firewall System[2]	Policy	Each Feature Supports 100 Rules Supports up to 600 Firewall Rules
	Dynamic Route	RIPv1, RIPv2
	Dynamic DNS	•
	NAT, PAT	•
	Web Content Filtering	Static URL Keywords
Networking[2]	Route Failover	•
	Outbound Load Balancing	•
Virtual Private Network (VPN)[2]	Encryption Methods	DES, 3DES, AES, Twofish, Blowfish, CAST-128, NULL
	IPSec NAT Traversal	•
	Dead Peer Detection	•
	IP Encapsulating Security Payload (ESP)	•
	IP Authentication Header (AH)	•
	VPN Tunnel Keep Alive	•
	Hub and Spoke	•
SSL Virtual Private Network (SSL VPN)[2]	SSL Encryption Methods	DES, 3DES, AES
	SSL Message Integrity	MD5, SHA1
System Management	Web-Based User Interface	HTTP
	Command Line Interface	•
	SNMP	v1, v2c, v3
Physical & Environment	Power Supply	Internal Power Supply: DC 12V/2.5A
	Max. Power Consumption	19.3 W
	Dimension	180 x 280 x 44 mm
	Operation Temperature	0 to 40°C
	Storage Temperature	-20 to 70°C
	Operation Humidity	5% to 95% RH Non-condensing
	EMI	FCC Class B, CE Class B, VCCI, C-tick, IC
	Safety	cUL, LVD (EN60950-1)

[1]The number of managed APs can be increased through purchase of license upgrades. Only available in groups of 6 licenses per upgrade.
[2] Features enabled through purchase of the VPN/Router/Firewall license upgrade.

Antennas - Single/Dual-Band (2.4/5 GHz)/Accessories

ANT Series

Single/Dual-Band Antennas (2.4/5GHz)	ANT24-1600N	ANT50-2000N
Electrical		
Connector Type	N jack x 2	N jack x 2
Gain	16-17 dBi	20 dBi
Horizontal/Vertical Angle	18°-25°	10°
Front to Back Ratio	-25 dB (max)	-30 dB (max)
Polarisation	Linear.Vertical/Horizontal	Dual Linear 45°
Impedance	50 Ohms	50 Ohms
Physical and Environmental		
Survival Wind Speed	216 Km/h (max)	216 Km/h (max)
Operating Temperature	-40 °C to 80 °C	-40 °C to 80 °C
Weight	1.1 Kg	1.32 Kg
Dimensions (mm)	320 x 320 x 43	320 x 320 x 20
Material	PC, UV-resistant	PC, UV-resistant
Mounting Type	Wall and Pole	Wall and Pole

Accessories	ANT24-CB03N	ANT24-CB06N	ANT24-CB09N	ECB-ANT240500	ECB-ANT241200
Cable Type	HDF-400	HDF-400	HDF-400	ULA-198	ULA-198
Length (m)	3	6	9	3	3
Cable Loss (dB)	1	2	3	2.5	2.5
Connection Type	N-Male N-Female	N-Male N-Female	N-Male N-Female	N-Male SMA-Female	SMA-Male SMA-Female
Use With	Outdoor Antennae	Outdoor Antennae	Outdoor Antennae	Outdoor Antennae	ANT24-1200

Wireless Network Adapters

D-Link's Wireless USB Adapters - the DWA -182 and DWA-171 enable you to transform your wireless Internet connection by using the Wireless AC Technology, the fastest wireless technology available today. It allows you to experience faster wireless speeds than ever before by delivering this powerful technology to your desktop or notebook computer.

DWA-182

Wireless AC Dual-Band USB Adapter

Download web content and sync files to a mobile device up to 4 times faster than the previous standard, and have extended coverage with fewer wireless deadspots. Get revolutionary wireless speeds which allow you to check your email and upload files or Skype™ calls and stream HD videos to multiple devices using the interference-free 5GHz band.

Next Generation Wireless Technology - Wireless AC for smooth HD video streaming and fast file transfers and lag free video conferences.

Dual-Band Performance - Up to 300Mbps (2.4GHz) or 867Mbps (5GHz) to deliver fast wireless speeds and less interference for maximum throughput

Backwards Compatibility - Compatible with existing Wi-Fi routers and range extenders

Simple Setup - WPS Push Button for easy connection to your wireless network interference for maximum throughput

Wireless AC

DWA-171

Wireless AC Dual-Band Nano USB Adapter

With its integrated dual-band technology, over the 2.4 GHz (150 Mbps) or 5 GHz (up to 433 Mbps) bands, you'll have reduced Wi-Fi interference to maximise throughput for faster video streaming, gaming, and VoIP calls.

Next Generation Wireless Technology - Wireless AC for smooth HD video streaming and fast file transfers and lag free video conferences

Dual-Band Performance - Up to 150Mbps (2.4GHz) or 433Mbps (5GHz) for DWA-171 to deliver fast wireless speeds and less interference for maximum throughput

Backwards Compatibility - Compatible with existing Wi-Fi routers and range extenders

Simple Setup - WPS Push Button for easy connection to your wireless network

Wireless AC

Model	DWA-182	DWA-171
Wireless Standards	IEEE 802.11ac//n/g/b/a	IEEE 802.11ac/n/g/b/a
Wireless Spped	300 Mbps 2.4 GHz 867 Mbps 5 GHz	433 Mbps 5 GHz 300 Mbps 2.4 GHz
WPS one button connection	•	•
Wi-Fi Protected Access Support	WPA and WPA2	WPA and WPA2
USB Type	USB 3.0	USB 2.0
Security	Wi-Fi Protected Access (WPA & WPA2)	Wi-Fi Protected Access (WPA & WPA2)
Antenna Type	Integrated antenna	Integrated antenna
Operating System	Windows 8/7/Vista/XP/2000 (32/64-bit)	Windows 8/7/Vista/XP (32/64-bit)
Dimensions	97.3 x 29.1 x 13.5 mm	31.7 x 18.8 x 8 mm
Weight	20.5 g	3.9 g

Unified Service Routers

Protecting a network against attacks and unauthorised access is key to the survival of any business. D-Link's security solutions offer end-to-end defence to ensure all areas of the network are secured. Products under this category include Unified Service Routers.

Unified Service Routers

DSR Series

Customised for small businesses, D-Link's Unified Service Routers are all-in-one gateway devices providing outstanding performance and rich functionalities, including IEEE 802.11n (ratified version), 3G WAN redundancy[1], IPv6 and comprehensive VPN features (SSL/IPSec/PPTP/L2TP).

- Static/Dynamic IP WAN Type
- Point-to-Point over Ethernet (PPPoE)
- SSL/IPSec/PPTP/L2TP VPN
- VPN Hub and Spoke
- IPSec/PPTP/L2TP VPN Pass-Through
- 3G WAN Redundancy[1]
- Network Address Translation (NAT)
- Transparent Mode
- WAN Traffic Failover
- Outbound Load Balancing[1]
- Remote Management (Web, SNMP, SSH, Telnet)
- Internet Group Management Protocol (IGMP) Proxy/Snooping
- Stateful Packet Inspection (SPI)
- L2 to L7 Access Control
- IP/MAC Binding
- Virtual LAN (VLAN)
- Intrusion Prevention System (IPS)
- Wireless Security (WEP, WPA, WPA2, WPS)
- Multiple SSIDs
- SSID-to-VLAN Mapping
- IPv6 Phase 2 Certified

[1] DSR-500N, DSR-1000N only

DSR-250N

- 10/100/1000BASE-T (WAN) port x 1
- 10/100/1000BASE-T (LAN) port x 8
- IEEE 802.11n Wireless LAN (2.4 GHz)
- USB 2.0 port x 1
- 2dBi dipole antenna x 2 (detachable)
- D-Link Green technology

DSR-500N

- 10/100/1000BASE-T (WAN) port x 2
- 10/100/1000BASE-T (LAN) port x 4
- IEEE 802.11n Wireless LAN (2.4 GHz)
- USB 2.0 port x 1
- 2dBi dipole antenna x 3 (detachable)
- 3G support
- D-Link Green technology

DSR-1000N

- 10/100/1000BASE-T (WAN) port x 2
- 10/100/1000BASE-T (LAN) port x 4
- IEEE 802.11n Wireless LAN (2.4 GHz or 5 GHz)
- USB 2.0 port x 2
- 2dBi dipole antenna x 3 (detachable)
- 3G support
- D-Link Green technology

Model	Model	DSR-250N	DSR-500N	DSR-1000N
Interfaces		1 x Gigabit Ports (WAN)	2 x Gigabit Ports (WAN)	2 x Gigabit Ports (WAN)
		8 x Gigabit Ports (LAN)	4 x Gigabit Ports (LAN)	4 x Gigabit Ports (LAN)
		1 x USB 2.0	1 x USB 2.0	2 x USB 2.0
Performance[3]	Firewall Throughput[4]	750 Mbps	950 Mbps	950 Mbps
	VPN Throughput[5]	50 Mbps	70 Mbps	100 Mbps
	Concurrent Sessions	20,000	30,000	60,000
	New Sessions (Per Second)	200	300	600
	Firewall Policies	200	300	600
Internet Connection Type		Static/Dynamic IP, L2TP/PPTP/PPPoE/Multiple PPPoE		
Firewall System	Static Route	•		
	RIPv1, RIP v2, OSPF[2]		•	
	Dynamic DNS	•		
	Inter-VLAN Route	•		
	NAT, PAT	•		
	Web Content Filtering	Static URL, Keywords		
	Intrusion Prevention System (IPS)	Signature Package Included in Firmware		
Networking	DHCP Server/ Client	•		
	DHCP Relay	•		
	IEEE802.1q VLAN	•		
	VLAN (Port-Based)	•		
	IP Multicast	IGMP Proxy		
	IPv6	•		
	Route Failover		•	
	Outbound Load Balancing		•	
	3G Redundancy	•		
Wireless	Multiple Service Set Identifier (SSID)	•		
	Service Set Identifier (SSID) to VLAN Mapping	•		
	Standards	802.11b/g/n		802.11a/b/g/n
	Wireless Security	WEP/WPA/WPA-PSK/WPA-EAP/WPA2-PSK/WPA2-EAP		
VPN	VPN Tunnels	65	85	135
	IPSec Tunnels	25	35	70
	SSL VPN Tunnels	5	10	20
	PPTP/L2TP Clients	25		
	GRE[2]	10	15	20
	Encryption Methods	DES, 3DES, AES, Twofish, Blowfish, CAST-128, NULL		
	SSL Encryption Methods	RC4-128, 3DES, AES		
	IPSec/PPTP/L2TP Server	•		
	IPSec NAT Traversal	•		
	Dead Peer Detection	•		
	IP Encapsulating Security Payload (ESP)	•		
	IP Authentication Header (AH)	•		
	VPN Tunnel Keep Alive	•		
	Hub and Spoke	•		
Bandwidth Management	Maximum Bandwidth Control	•		
	Priority Bandwidth Control	Port-Based QoS, 3 Classes		
System Management	Web-based User Interface	HTTP, HTTPS		
	Command Line	•		
	SNMP	v1, v2c, v3		
Physical and Envirnmental	Power Supply	External Power Supply Unit DC 12 V/1.5 A	Internal Power Supply Unit DC 12 V/2.5 A	
	Max. Power Consumption	12.6 W	16.8 W	19.3 W
	Dimensions (L x W x H)	140 x 203 x 35 mm	180 x 280 x 44 mm	
	Operation Temperature	0 to 40°C		
	Storage Temperature	-20 to 70°C		
	Operation Humidity	5% to 95% RH Non-condensing		
	EMI/EMC	FCC Class B, CE Class B, C-Tick, IC, VCCI		
	Safety	cUL, LVD (EN60950-1)		
	3rd Party Certification	IPv6 Ready, Wi-Fi, ICSA-Certified Firewall, VPNC AES Interop, VPNC Basic Interop		
	MTBF	250,000 Hours	260,000 Hours	

[1] DSR-500N, DSR-1000N only
[2] Available in the future firmware upgrade
[3] Actual performance may vary depending on network conditions and activated services.
[4] Firewall throughput is measured using UDP traffic with a 1,518 bytes packet size, adhering to RFC2544.
[5] VPN throughput is measured using UDP traffic with the packet size 1420 bytes and encryption method 3DES plus SHA-1, adhering to PFC2544.

Video Surveillance

The security of your business is at risk if there is no monitoring system in place to protect your business assets. Choosing to implement Video Surveillance offers the advantage of leveraging your existing network infrastructure to maximise investment. Video Surveillance not only provides all of the superior functionality of an effective analogue CCTV offering, but adds several key benefits, such as increased accessibility, real-time alerts, unlimited storage and secure image distribution, and superior cost benefits. Products under this category include IP Cameras, Network Video Recorders, Camera Accessories and Video Encoders.

Range Overview

Fixed Cameras (Indoor)

WIRED+WIRELESS

DCS-930L

DCS-932L

DCS-933L

DCS-942L

DCS-2130

DCS-2132L

DCS-2136L

DCS-2230

WIRED

DCS-2210

DCS-3010

DCS-3112

DCS-3710

DCS-3716

Fixed Cameras (Outdoor)

WIRED

DCS-2310L

DCS-7010L

DCS-7110

DCS-7413

DCS-7513

WIRED+WIRELESS

DCS-2330L

DCS-2332L

Panoramic and Mini Dome Cloud Camera (Indoor)

INDOOR

DCS-6010L

DCS-6004L

Dome Cameras

INDOOR

DCS-6113

OUTDOOR

DCS-6210

DCS-6314

DCS-6315

DCS-6511

DCS-6513

PTZ Cameras

INDOORS

DCS-5020L

DCS-5222L

DCS-5615

DCS-6616

OUTDOORS

DCS-6815

DCS-6915

Fixed Network Cameras (Wired + Wireless)

D-Link offers a wide range of fixed network cameras to meet the surveillance requirements for indoor usage and for day to night monitoring. The fixed network cameras are reliable, economical and of high-quality. The cameras can be connected to a network to provide a fixed viewing direction once they are mounted.

DCS-930L

Wireless Cloud Camera

- 1/5"VGA progressive scan CMOS sensor
- 640 x 480 resolution
- Built-in microphone
- Motion detection and e-mail notification with snapshots

DCS-932L

Wireless Day/Night Cloud Camera

- 1/5"VGA progressive scan CMOS sensor
- 640 x 480 resolution
- Up to 5 m night vision with integrated IR illuminator
- Built-in microphone
- Motion detection and e-mail notification with snapshots

DCS-933L

Wireslss Day/Night Cloud Camera

- 1/5"VGA progressive scan CMOS sensor
- 640 x 480 resolution
- Up to 5 m night vision with integrated IR illuminator
- Built-in microphone
- Built-in wireless extender (max. 5 clients)
- Motion and sound detection, e-mail notification with snapshots or video

DCS-942L

Wireless Enhanced Day/ Night Cloud Camera

- 1/5"VGA progressive scan CMOS sensor
- 640 x 480 resolution
- Up to 5 m night vision with integrated IR illuminator
- 2-way audio with built-in microphone and external speaker output
- Recording to local microSD card slot (16 Gb included) or to a NAS device
- Integrated PIR motion sensor. Motion detection and e-mail notification with snapshots.

DCS-2130

HD Wireless Network Camera

- 1/4" 1 megapixel progressive scan CMOS sensor
- HD 720p or 1280 x 800 resolution
- 2-way audio with built-in microphone and external speaker output
- Supports MJPEG, MPEG-4 and H.264 video formats
- Recording to local microSD card slot or to a NAS device
- ePTZ for virtual PTZ operation

DCS-2132L

HD Wireless Cloud Camera

- 1/4" 1 megapixel progressive scan CMOS sensor
- HD 720p or 1280 x 800 resolution
- Up to 5 m night vision with integrated IR illuminator
- 2-way audio with built-in microphone and speaker
- Integrated PIR motion sensor. Motion detection, event recording and e-mail notification with snapshots

DCS-2136L

HD Wireless AC Day/Night Cloud Camera with Colour Night Vision

- Sony Exmor 1/3" 1 megapixel progressive scan CMOS sensor supporting Wide Dynamic Range (WDR) and LowLight+ technology
- HD 720p resolution
- Up to 5 m colour night vision with integrated white light illuminator
- 2-way audio with built-in microphone and speaker
- Recording to local microSD card slot (16 Gb included) or to a NAS device
- Integrated PIR motion sensor

DCS-2230

Full HD Wireless Day/Night Cloud Camera

- 1/2.7" 2 megapixel progressive scan CMOS sensor
- Full HD 1080p resolution
- Up to 5 m night vision with integrated IR illuminator
- 2-way audio with built-in microphone and speaker
- Recording to local microSD card slot or to a NAS device
- Motion detection, event recording and e-mail notification with snapshots
- Integrated PIR (Passive Infrared) sensor for enhanced motion detection

Model	DCS-930L	DCS-932L	DCS-933L	DCS-942L	DCS-2130	DCS-2132L	DCS-2136L	DCS-2230
Image Sensor								
Type	1/5"VGA Progressive Scan CMOS	1/5"VGA Progressive Scan CMOS	1/5"VGA Progressive Scan CMOS	1/5"VGA Progressive Scan CMOS	1/4" 1 Megapixel Progressive Scan CMOS	1/4" 1 Megapixel Progressive Scan CMOS	1/3" 1 Megapixel Progressive Scan CMOS	1/2.7" 2 Megapixel Progressive Scan CMOS
Megapixel					•	•	•	•
Wide Dynamic Range (WDR)							•	
LowLight+							•	
Maximum Video Resolution	640 x 480	640 x 480	640 x 480	640 x 480	1280 x 800	1280 x 720	1280 x 720	1920 x 1080
Lens								
Type	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
Focal Length	5.01 mm	5.01 mm	3.15 mm	3.15 mm	3.45 mm	3.45 mm	3.6 mm	4.37 mm
F-Number	F2.8	F2.8	F2.8	F2.8	F2.0	F2.0	F1.4	F2.0
Minimum Illumination (Lux)	1 Lux	1 Lux (colour) 0 Lux (B&W, IR-LED on)	1 Lux (colour) 0 Lux (B&W, IR-LED on)	1 Lux (colour) 0 Lux (B&W, IR-LED on)	1 Lux	1 Lux (colour) 0 Lux (B&W, IR-LED on)	1 Lux (colour) 0 Lux (colour, white light LED on)	1 Lux (colour) 0 Lux (B&W, IR-LED on)
Angle of View (Horizontal/Vertical)	45.3°/34.5°	45.3°/34.5°	45.3°/34.5°	45.3°/34.5°	57.8°/37.8°	57.8°/37.8°	64°/46.5°	67.4°/40.8°
Motorised Pan/Tilt								
Optical Zoom								
Privacy Masks					3 zones	3 zones	3 zones	3 zones
Day and Night								
ICR Filter		•	•	•		•		•
Built in PIR				•		•		•
IR Built-in		5m	5m	5m		5m	5m (white light)	5m
Audio								
2-Way Audio				•	•	•	•	•
Built-in Microphone	•	•	•	•	•	•	•	•
External Microphone Input								
Built-in Speaker						•	•	•
External Speaker Output				•	•			
Connectivity								
Wired LAN	•	•	•	•	•	•	•	•
Wireless LAN	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n/ac	802.11 b/g/n
802.3af PoE								
Digital Input/Output					DI x 1, DO x 1	DI x 1, DO x 1	DI x 1, DO x 1	DI x 1, DO x 1
Monitor Output								
Memory Card Slot				• (16GB included)	•	•	• (16GB included)	•
Software Features								
Video Format	MJPEG	MJPEG	H.264, MJPEG	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG
Multi-Stream			•		•	•	•	•
Multi-Profile			•					
Digital Zoom	4X	4X	4X	4X	10X	10X	10X	10X
HTTP Secure (HTTPS)				•		•	•	•
Java Support	•	•	•					
Motion Detection	•	•	•	•	•	•	•	•
E-Mail Notification	•	•	•	•	•	•	•	•
Schedule Recording to Hard Drive					•	•	•	•
Recording to NAS					•	•	•	•
Audio Recording	•	•	•	•	•	•	•	•
Mobile Stream	•	•	•	•	•	•	•	•
UPnP Installation	•	•	•	•	•	•	•	•
DDNS Support	•	•	•	•	•	•	•	•
Enable/Disable LED Indicators		•	•	•		•	•	
D-ViewCam™ Compatible	•	•	•	•	•	•	•	•
Physical and Environmental								
Dimensions	27.2 x 60 x 96 mm	27.2 x 60 x 96 mm	80 x 115 x 80 mm	27.2 x 60 x 96 mm	95 x 58 x 30.7 mm	58 x 89 x 127.9 mm	58 x 43.1 x 128.8 mm	95 x 58 x 38.7 mm
Weight	76.9 g	76.9 g	96.2 g	76.9 g	69 g	116 g	109 g	70 g
Max. Power Consumption	5.5 W	2 W	4 W	5.5 W	2.5 W	3.65 W	4.5 W	2.5 W
Operating Temperature	0 to 40°C	0 to 40°C	0 to 40°C	0 to 40°C	0 to 40°C	0 to 40°C	0 to 40°C	0 to 40°C
Operating Humidity	20% to 80% RH Non-condensing	20% to 80% RH Non-condensing	20% to 80% RH Non-condensing	20% to 80% RH Non-condensing	20% to 80% RH Non-condensing	20% to 80% RH Non-condensing	20% to 80% RH Non-condensing	20% to 80% RH Non-condensing

Fixed Network Cameras (Wired-Indoor)

D-Link offers a wide range of fixed network cameras to meet the surveillance requirements the indoor usage and from day to night monitoring. The fixed IP cameras are reliable, economical and of high-quality. The cameras can be connected to a network to provide a fixed viewing direction once they are mounted.

DCS-2210

Full HD PoE Day/Night Network Camera

- 1/2.7" 2 megapixel progressive scan CMOS sensor
- Fixed lens (4.37 mm, F2.0)
- Full HD 1080p resolution
- Up to 5 m night vision with integrated IR illuminator
- 10x digital zoom
- 2-way audio with built-in microphone and speaker
- Supports MJPEG, MPEG-4 and H.264 video formatsRecording to local microSD card slot or to a NAS device
- Motion detection, event recording and e-mail notification with snapshots Integrated PIR (Passive Infrared) sensor for enhanced motion detection
- e-PTZ for virtual PTZ operation

Power over Ethernet | 100Mbps LAN x1 | ONVIF

DCS-3010

HD PoE Fixed Network Camera

- 1/4" 1 megapixel progress scan CMOS sensor
- Fixed lens (4.0 mm, F 1.5)
- 720p HD or 1280 x 800 resolution
- 4x digital zoom
- 2-way audio with built-in microphone, external micro-phone input and speaker output
- Supports MJPEG, MPEG-4 and H.264 video formats
- Recording to local microSD card slot or to a NAS device
- Motion detection, event recording and e-mail notification with snapshots
- Tamper detection
- ePTZ for virtual PTZ operation

Power over Ethernet | 100Mbps LAN x1 | ONVIF

DCS-3112

HD PoE Day/Night Fixed Network Camera

- Sony 1/4" 1.3 megapixel progressive scan CMOS sensor
- CS mount DC auto iris lens (3.5~8 mm, F1.4) with 2.3x optical zoom
- HD 720p or 1280 x 1024 resolution
- 10x ditigal zoom
- 2-way audio with external microphone input and speaker output
- Supports MJPEG, MPEG-4 and H.264 video formats
- Recording to local SD card slot or to a NAS device
- Motion detection, event recording and e-mail notification with snapshotsRemovable IR- cut filter for recording in low light conditions
- Analogue output

Power over Ethernet | 100Mbps LAN x1 | ONVIF

DCS-3710

HD WDR PoE Day/Night Fixed Network Camera

- Sony 1/3" 1.3 megapixel WDR progressive scan CMOS sensor
- CS mount DC iris varifocal lens (2.9~8.2 mm, F1.0) with 2.8x optical zoom
- Wide Dynamic Range (WDR) technology for exceptional picture quality in extreme contrast environments HD 720p or 1280 x 1024 resolution
- 10x digital zoom
- 2-way audio with external microphone input and speaker output
- Supports MJPEG, MPEG-4 and H.264 video formats
- Recording to local SD card slot or to a NAS device
- Motion detection, event recording and e-mail notification with snapshots
- Removable IR-cut filter for recording in low light conditions
- Analogue output

Power over Ethernet | 100Mbps LAN x1 | ONVIF

DCS-3716

Full HD WDR PoE Day/Night Fixed Network Camera

- Sony 1/2.8" 3 megapixel WDR progressive scan CMOS sensor
- CS mount DC auto iris lens (3.1~8mm, F1.2) with 2.6x optical zoom
- Wide Dynamic Range (WDR) technology for exceptional picture quality in extreme contrast environments
- Full HD 1080p or 2048 x 1536 resolution
- 10x digital zoom
- 2-way audio with external microphone input and speaker output
- Supports MJPEG, MPEG-4 and H.264 video formats
- Recording to local SD card slot or to a NAS device
- Removable IR-cut filter for recording in low light conditions
- Motion detection, event recording and e-mail notification with snapshots
- Analogue output

Power over Ethernet | 100Mbps LAN x1 | ONVIF

Model	DCS-2210	DCS-3010	DCS-3112	DCS-3710	DCS-3716
Image Sensor					
Type	1/2.7" 2 Megapixel Progressive Scan CMOS	1/4" 1 Megapixel Progressive Scan CMOS	Sony Exmor 1/4" 1.3 Megapixel Progressive Scan CMOS	1/3" 1.3 Megapixel WDR Progressive Scan CMOS	1/2.8" 3 Megapixel WDR Progressive Scan CMOS
Megapixel	•	•	•	•	•
Wide Dynamic Range (WDR)				•	•
Maximum Video Resolution	1920 x 1080	1280 x 720	1280 x 1024	1280 x 1024	2048 x 1536
Lens					
Type	Fixed	Fixed	Varifocal, DC-iris,	Varifocal, DC-Iris	Varifocal, DC-Iris
Focal Length	4.37 mm	4 mm	3.5 mm~8 mm	2.9~8.2 mm	3.1~8.0 mm
F-Number	F2.0	F1.5	F1.4	F1.0	F1.2
Minimum Illumination (Lux)	1 Lux (colour) 0 Lux (B&W, IR-LED on)	1 Lux	0.4 Lux (colour) 0.04 Lux (B/W)	0.2 Lux (colour) 0.02 Lux (B/W)	10.5 Lux (colour); 0.05 Lux (B/W)
Angle of View (Horizontal/Vertical)	67.4°/40.8°	56.9°/35.9 °	35.4°~77.6°/26.6°~57.6°	35.6°~95°/26.7°~69°	38.7°~95.9°/29.1°~71.0°
Motorised Pan/Tilt					
Optical Zoom			2.3X	2.8X	2.6X
Privacy Masks	3 zones	3 zones	3 zones	3 zones	3 zones
Day and Night					
ICR Filter	•		•	•	•
IR Built-in	5m				
Audio					
2-Way Audio	•	•	•	•	•
Built-in Microphone	•	•			
External Microphone Input		•	•	•	•
Built-in Speaker	•				
External Speaker Output		•	•	•	•
Connectivity					
Wired LAN	•	•	•	•	•
Wireless LAN					
802.3af PoE	•	•	•	•	•
Digital Input/Output	DI x 1, DO x 1		DI x 2, DO x 1	DI x 2, DO x 1	DI x 2, DO x 1
Monitor Output			BNC Output	BNC Output	BNC Output
Memory Card Slot	•	•	•	•	•
Software Features					
Video Format	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	H.264, MJPEG, MPEG-4	H.264, MPEG-4, MJPEG
Multi-Stream	•	•	•	•	•
Multi-Profile	•	•	•	•	•
Digital Zoom	10X	4X	10X	10X	10X
HTTP Secure (HTTPS)	•	•	•	•	•
Java Support					
Motion Detection	•	•	•	•	•
E-Mail Notification	•	•	•	•	•
Recording to Local Storage	•	•	•	•	•
Recording to NAS	•	•	•	•	•
Audio Recording	•	•	•	•	•
Video Output to 3GPP	•	•	•	•	•
UPnP Installation	•	•	•	•	•
DDNS Support	•	•	•	•	•
Enable/Disable LED Indicators		•	•	•	•
D-ViewCam™ Compatible	•	•	•	•	•
Physical and Environmental					
Dimensions	95 x 58 x 38.7 mm	147 x 61.9 x 39.2 mm	180.4 x 80.0 x 52.9 mm	140 x 80 x 53 mm	140 x 80 x 53 mm
Weight	69 g	165 g	560 g	576 g	580 g
Max. Power Consumption	2 W	4.6 W	3.6 W	2 W	4 W
Operating Temperature	0 to 40°C	0 to 40°C	0 to 40°C	0 to 40°C	0 to 40°C
Operating Humidity	20% to 80% RH Non-condensing	20% to 80% RH Non-condensing	20% to 80% RH Non-condensing	20% to 80% RH Non-condensing	20% to 80% RH Non-condensing

Fixed Network Cameras (Wired-Outdoor)

DCS-2310L

Outdoor HD PoE Day/Night Cloud Camera

- 1/4" 1 megapixel progressive scan CMOS sensor
- Fixed lens (3.45 mm, F 2.0)
- HD 720p or 1280 x 800 resolution
- Up to 5 m night vision with integrated IR illuminator
- 10x digital zoom
- 2-way audio with built-in microphone and speaker
- Supports MJPEG, MPEG-4 and H.264 video formats
- Recording to local microSD card slot or to a NAS device Motion detection, event recording and e-mail notification with snapshots
- Integrated PIR (Passive Infrared) sensor for enhanced motion detection
- ePTZ for virtual PTZ operation

Power over Ethernet | 100Mbps LAN x1 | ONVIF | mydlink

DCS-7010L

Outdoor HD PoE Day/Night Fixed Mini Bullet Cloud Camera

- 1/4" 1 megapixel progressive scan CMOS sensor
- Fixed lens (4.3 mm, F2.0)
- HD 720p or 1280 x 800 resolution
- Up to 10 m night vision with integrated IR illuminator
- 4x digital zoom
- 2-way audio with external microphone input and speaker output
- Supports MJPEG, MPEG-4 and H.264 video formats
- Recording to local microSD card slot or to a NAS device
- Motion detection, event recording and e-mail notification with snapshots
- IP-67 weatherproof housing

Power over Ethernet | 100Mbps LAN x1 | ONVIF | mydlink

DCS-7110

Outdoor HD PoE Day/Night Fixed Bullet Camera

- Sony 1/4" 1 megapixel progressive scan CMOS sensor
- Fixed lens (4 mm, F1.5)
- HD 720p or 1280 x 800 resolution
- Up to 15 m night vision with integrated IR illuminator
- 4x digital zoom
- Supports MJPEG, MPEG-4 and H.264 video formats
- Recording to a NAS device
- Motion detection, event recording and e-mail notification with snapshots
- Tamper detection
- Analogue output
- IP-66 weatherproof housing

Power over Ethernet | 100Mbps LAN x1 | ONVIF

DCS-7413

Outdoor Full HD PoE Day/Night Fixed Bullet Network Camera

- 1/2.7" 2 megapixel progressive scan CMOS sensor
- Fixed lens (4.3 mm, F2.0)
- Full HD 1080p resolution
- Up to 30 m night vision with integrated IR illuminator
- 10x digital zoom
- 2-way audio with external microphone input and speaker output
- Supports MJPEG, MPEG-4 and H.264 video formats
- Recording to local SD card slot or to a NAS device
- Motion detection, event recording and e-mail notification with snapshots
- Analogue output
- IP-68 weatherproof housing

Power over Ethernet | 100Mbps LAN x1 | ONVIF

DCS-7513

Outdoor Full HD WDR PoE Day/Night Fixed Bullet Network Camera

- 1/2.8" 2 megapixel WDR progressive scan CMOS sensor
- Motorised P-iris varifocal lens (3~9 mm) with 3x optical zoom
- Wide Dynamic Range (WDR) technology for exceptional picture quality in extreme contrast environments
- Full HD 1080p resolution
- Up to 30 m night vision with integrated IR illuminator
- 10x digital zoom
- 2-way audio with external microphone input and speaker output
- Supports MJPEG, MPEG-4 and H.264 video formats
- Recording to local SD card slot or to a NAS device
- Motion detection, event recording and e-mail notification with snapshots
- Analogue output
- IP-68 weatherproof housing

Power over Ethernet | 100Mbps LAN x1 | ONVIF

Model	DCS-2310L	DCS-7010L	DCS-7110	DCS-7413	DCS-7513
Image Sensor					
Type	1/4" 1 Megapixel Progressive Scan CMOS	1/4" 1 Megapixel Progressive Scan CMOS	1/4" 1 Megapixel Progressive Scan CMOS	1/2.7" 2 Megapixel Progressive Scan CMOS	1/2.8" 2 Megapixel Progressive Scan CMOS
Megapixel	•	•	•	•	•
Wide Dynamic Range (WDR)					•
Maximum Video Resolution (Pixels)	1280 x 800	1280 x 800	1280 x 800	1920 x 1080	1920 x 1080
Lens					
Type	Fixed	Fixed	Fixed	Fixed	motorised P-iris varifocal lens
Focal Length	3.45 mm	4.3 mm	4 mm	4.3 mm	3~9 mm
F-Number	F2.0	F2.0	F1.5	F2.0	F1.2~2.3
Minimum Illumination (Lux)	1 Lux (colour), 0.5 Lux (B&W) 0 Lux(B&W, IR-Led on)	1.5 Lux (colour) 0 Lux (B&W, IR-LED on)	0.26 Lux (colour) 0 Lux (B&W, IR-LED on)	1.5 Lux (colour) 0 Lux (B&W IR-LED on)	0.2 Lux (colour) 0 Lux (B&W , IR-LED on)
Angle of View (Horizontal/Vertical)	57.8°/37.8°	47°/43°	53.1°/33.7°	79°/43°	121.2°~38.1°/62.1°~21.3°
Motorised Pan/Tilt					
Optical Zoom					3X
Privacy Masks	3 zones	3 zones	3 zones	3 zones	3 zones
Day and Night					
ICR Filter	•	•	•	•	•
IR Built-in	5m	10m	15m	30m	30m
Audio					
2-Way Audio	•	•		•	•
Built-in Microphone	•				
External Microphone Input		•		•	•
Built-in Speaker	•				
External Speaker Input		•		•	•
Connectivity					
Wired LAN	•	•	•	•	•
Wireless LAN					
802.3af PoE	•	•	•	•	•
Digital Input/Output		DI x 1, DO x 1	DI x 1, DO x 1	DI x 1, DO x 1	DI x 1, DO x 1
Monitor Output			BNC	BNC	BNC
Memory Card Slot	•	•		•	•
Software Features					
Video Format	H.264, MJPEG, MPEG-4	H.264, MJPEG, MPEG-4	H.264, MJPEG, MPEG-4	H.264, MJPEG, MPEG-4	H.264, MJPEG, MPEG-4
Multi-Stream	•	•	•	•	•
Multi-Profile			•		
Digital Zoom	10X	4X	4X	10X	10X
HTTP Secure (HTTPS)	•	•	•	•	•
Java Support	•				
Motion Detection	•	•	•	•	•
E-Mail Notification	•	•	•	•	•
Recording to Local Storage	•	•	•	•	•
Recording to NAS	•	•	•	•	•
Audio Recording	•	•		•	•
Video Output to 3GPP	•	•	•	•	•
UPnP Installation	•	•	•	•	•
DDNS Support	•	•	•	•	•
Enable/Disable LED Indicators					
D-ViewCam™ Compatible	•	•	•	•	•
Physical and Environmental					
IP rating	IP65	IP67	IP66	IP68	IP68
Dimensions	138.9 x 93 x 66 mm	176.5 x 80.5 x 65 mm	197 x 73 x 71 mm	316.5 x 249.1 x 97.5 mm	97.5 x 223.5 x 97.5 mm
Weight	235 g	510 g	783 g	1.92 kg (with bracket and sun shield)	2.05 kg with bracket and sunshield
Max. Power Consumption	5.3 W	5.4 W	6 W	11.2 W	11.02 W
Operating Temperature	-25 to 50°C	-25 to 50 °C	-20 to 50 °C	-40 to 50 °C	-40 to 50 °C
Operating Humidity	20% to 80% RH Non-condensing	20% to 80% RH Non-condensing	20% to 80% RH Non-condensing	20% to 80% RH Non-condensing	20% to 80% RH Non-condensing

Panoramic and Mini Dome Cloud Camera (Indoor)

DCS-6010L

2-Megapixel Panoramic Wireless Cloud Camera

- 1/3.2" 2 megapixel progressive scan CMOS sensor
- Fixed fisheye lens (1.25 mm, F2.0)
- Ceiling mount 360° surveillance with fisheye distortion correction
- 1620 x 1200 resolution
- 10x digital zoom
- 2-way audio with built-in microphone and speaker
- Supports MJPEG, MPEG-4 and H.264 video formats
- Recording to local microSD card slot or to a NAS device
- Motion detection, event recording and e-mail notification with snapshots
- ePTZ for virtual PTZ operation

DCS-6004L

Indoor HD PoE Mini Dome Cloud Camera

- 1/4" 1 megapixel progressive scan CMOS sensor
- Fixed lens (2.8 mm, F1.8)
- HD 720p or 1280 x 800 resolution
- Up to 5 m night vision with integrated IR illuminator
- 10x digital zoom
- 2-way audio with built-in microphone and external speaker output
- Supports MJPEG, MPEG-4 and H.264 video formats
- Recording to local microSD card slot or to a NAS device
- Motion detection, event recording and e-mail notification with snapshots

Model	DCS-6004L	DCS-6010L
Image Sensor		
Type	1/4" 1 Megapixel Progressive Scan CMOS	1/3.2" 2 Megapixel Progressive Scan CMOS
Megapixel	•	•
Wide Dynamic Range (WDR)		
Maximum Video Resolution (Pixels)	1280 x 800	1600 x 1200
Lens		
Type	Fixed	Fisheye
Focal Length	2.8 mm	1.25 mm
F-Number	F1.8	F2.0
Minimum Illumination (Lux)	1 Lux (colour) 0 Lux (B&W, IR-LED on)	1 Lux
Angle of View (Horizontal/Vertical)	75.2°/48.2°	180°/180°
Motorised Pan/Tilt		
Optical Zoom		
Privacy Masks	3 zones	3 zones
Day and Night		
ICR Filter	•	
IR Built-in	5m	
Audio		
2-Way Audio	•	•
Built-in Microphone	•	•
External Microphone Input		•
Built-in Speaker		•
External Speaker Output	•	
Connectivity		
Wired LAN	•	•
Wireless LAN		802.11n/g/b
802.3af PoE	•	
Digital Input/Output		
Monitor Output		
Memory Card Slot	•	•
Software Features		
Video Format	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG
Multi-Stream	•	•
Multi-Profile		•
Digital Zoom	10X	10X
HTTP Secure (HTTPS)	•	•
Java Support		
Motion Detection	•	•
E-Mail Notification	•	•
Recording to Local Storage	•	•
Recording to NAS	•	•
Audio Recording	•	•
Video Output to 3GPP	•	•
UPnP Installation	•	•
DDNS Support	•	•
Enable/Disable LED Indicators		
D-ViewCam™ Compatible	•	•
Physical and Environmental		
Dimensions	90 x 50.5 mm (Ø x H)	134.2 x 49.8 mm (Ø x H)
Weight	130 g	1.92 kg (with bracket and sun shield)
Max. Power Consumption	3.5 W	3.9 W
Operating Temperature	0 to 40°C	0 to 40°C
Operating Humidity	20% to 80% RH Non-condensing	20% to 80% RH Non-condensing

Fixed Network Camera (Wireless - Outdoor)

DCS-2330L

Outdoor HD Wireless Day/Night Cloud Camera

- 1/4" 1 megapixel progressive scan CMOS sensor
- HD 720p resolution
- Up to 5 m night vision with integrated IR illuminator
- Built-in microphone
- Supports MJPEG and H.264 video formats
- Recording to local microSD card slot (16 Gb included) or to a NAS device
- Motion detection, event recording and e-mail notification with snapshots and video
- Integrated PIR (Passive Infrared) sensor for enhanced motion detection
- ePTZ for virtual PTZ operation
- IP65 weatherproof housing

DCS-2332L

Outdoor HD Wireless Day/Night Cloud Camera

- 1/4" 1 megapixel progressive scan CMOS sensor
- HD 720p resolution
- Up to 5 m night vision with integrated IR illuminator
- 2-way audio with built-in microphone and speaker
- Supports MJPEG, MPEG-4 and H.264 video formats
- Recording to local microSD card slot or to a NAS device
- Motion detection, event recording and e-mail notification with snapshots
- Integrated PIR (Passive Infrared) sensor for enhanced motion detection
- IP-65 weatherproof housing

Model	DCS-2330L	DCS-2332L
Image Sensor		
Type	1/4" 1 Megapixel Progressive Scan CMOS	1/4" 1 Megapixel Progressive Scan CMOS
Megapixel	•	•
Wide Dynamic Range (WDR)		
Maximum Video Resolution (Pixels)	1280 x 720	1280 x 720
Lens		
Type	Fixed	Fixed
Focal Length	3.45 mm	3.45 mm
F-Number	F2.0	F2.0
Minimum Illumination (Lux)	1 Lux (colour), 0.5 Lux (B&W), 0 Lux (B&W, IR-Led on)	1 Lux (colour), 0.5 Lux (B&W), 0 Lux (B&W, IR-Led on)
Angle of View (Horizontal/Vertical)	57.8°/37.8°	57.8°/37.8°
Motorised Pan/Tilt		
Optical Zoom		
Privacy Masks	3 zones	3 zones
Day and Night		
ICR Filter	•	•
Built-in PIR	•	•
IR Built-in	5m	5m
Audio		
2-Way Audio		•
Built-in Microphone	•	•
External Microphone Input		
Built-in Speaker		•
Connectivity		
Wired LAN	•	•
Wireless LAN	802.11n/g/b	802.11n/g/b
802.3af PoE		
Digital Input/Output		
Monitor Output		
Memory Card Slot	• (16GB included)	•
Software Features		
Video Format	H.264, MJPEG	H.264, MJPEG, MPEG-4
Multi-Stream	•	•
Multi-Profile		
Digital Zoom	10X	10X
HTTP Secure (HTTPS)	•	•
Java Support	•	•
Motion Detection	•	•
E-Mail Notification	•	•
Recording to Local Storage	•	•
Recording to NAS	•	•
Audio Recording	•	•
UPnP Installation	•	•
DDNS Support	•	•
Enable/Disable LED Indicators		
D-ViewCam™ Compatible	•	•
Physical and Environmental		
IP Rating	IP65	IP65
Dimensions	66 x 45.7 x 146.8 mm	66 x 45.7 x 146.8 mm
Weight	134 g	235 g
Max. Power Consumption	5 W	5.3 W
Operating Temperature	-25 to 50 °C	-25 to 50 °C
Operating Humidity	20% to 80% RH Non-condensing	20% to 80% RH Non-condensing

Fixed Dome Network Cameras (Wired)

D-Link's high-performance Fixed Dome Network cameras provide the necessary professional look and surveillance for business environments, and are especially popular with CCTV. They are equipped with progressive CMOS technology which delivers exceptional picture quality.

DCS-6113

Indoor Full HD PoE Day/ Night Fixed Dome Network Camera

- 1/2.7" 2 megapixel progressive scan CMOS sensor
- Fixed lens (4 mm, F1.5)
- Full HD 1080p resolution
- Up to 10 m night vision with integrated IR illuminator
- 16x digital zoom
- 2-way audio with external microphone input and speaker output
- Supports MJPEG, MPEG-4 and H.264 video formats
- Recording to local microSD card slot or to a NAS device
- Motion detection, event recording and e-mail notification with snapshots
- Tamper detection
- Analogue output

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DCS-6210

Outdoor Full HD Vandal resistant Mini Fixed Dome Network Camera

- 1/2.7" 2 megapixel progressive scan CMOS sensor
- Fixed lens (4.3 mm, F2.0)
- Full HD 1080p resolution
- 10x digital zoom
- Built-in microphone
- Supports MJPEG, MPEG-4 and H.264 video formats
- Recording to local microSD card slot or to a NAS device
- Motion detection, event recording and e-mail notification with snapshots
- ePTZ for virtual PTZ operation
- IP-66 weatherproof and IK-10 vandal proof housing

100Mbps LAN x1 | Power over Ethernet | ONVIF

DCS-6314

Outdoor Full HD WDR Varifocal Day & Night Dome Network Camera

- 1/2.8" 2 megapixel WDR progressive scan CMOS sensor
- Varifocal lens (2.8~12 mm, F1.4) with 4x optical zoom
- Wide Dynamic Range (WDR) technology for exceptional picture quality in extreme contrast environments
- Full HD 1080p resolution
- Up to 15 m night vision with integrated IR illuminator
- 10x digital zoom
- 2-way audio with external microphone input and speaker output
- Supports MJPEG, MPEG-4 and H.264 video formats
- Recording to local microSD card slot or to a NAS device
- Motion detection, event recording and e-mail notification with snapshots
- IP-68 weatherproof and IK-10 vandal proof housing

100Mbps LAN x1 | Power over Ethernet | ONVIF

DCS-6315

Outdoor HD WDR Varifocal Day & Night Dome Network Camera with Colour Night Vision

- 1/3" 1 megapixel WDR progressive scan CMOS lens
- Varifocal lens (2.8~12 mm, F1.4) with 4x optical zoom
- Wide Dynamic Range (WDR) technology for exceptional picture quality in extreme contrast environments
- LowLight+ technology
- HD 720p resolution
- Up to 15 m night vision with integrated IR illuminator
- 10x digital zoom
- 2-way audio with external microphone input and speaker output
- Supports MJPEG, MPEG-4 and H.264 video formats
- Recording to local microSD card slot or to a NAS device
- Motion detection, event recording and e-mail notification with snapshots
- IP-68 weatherproof and IK-10 vandal proof housing

100Mbps LAN x1 | Power over Ethernet | ONVIF

DCS-6511

Outdoor PoE Vandal-resistant HD Fixed Dome Network Camera

- 1/3" 1.3 megapixel WDR progressive scan CMOS sensor
- Motorised varifocal lens (3.3~12 mm, F1.4~360) with 3.6x optical zoom
- Wide Dynamic Range (WDR) technology for exceptional picture quality in extreme contrast environments
- HD 720p or 1280 x 1024 resolution
- Up to 20 m night vision with integrated IR illuminator
- 10x digital zoom
- 2-way audio with external microphone input and speaker output
- Supports MJPEG, MPEG-4 and H.264 video formats
- Recording to local microSD card slot or to a NAS device
- Motion detection, event recording and e-mail notification with snapshots
- Analogue output
- IP-66 weatherproof and IK-10 vandal proof housing

100Mbps LAN x1 | Power over Ethernet | ONVIF

DCS-6513

Outdoor Full HD WDR Day & Night Dome Network Camera

- 1/2.8" 3 megapixel WDR progressive scan CMOS sensor
- Motorised P-iris varifocal lens (3~9 mm, F1.2~2.3) with 3x optical zoom
- Wide Dynamic Range (WDR) technology for exceptional picture quality in extreme contrast environments
- Full HD 1080p or 2048 x 1536 resolution
- Up to 20 m night vision with integrated IR illuminator
- 10x digital zoom
- 2-way audio with external microphone input and speaker output
- Supports MJPEG, MPEG-4 and H.264 video formats
- Recording to local microSD card slot or to a NAS device
- Motion detection, event recording and e-mail notification with snapshots
- IP-67 weatherproof and IK-10 vandal proof housing

100Mbps LAN x1 | Power over Ethernet | ONVIF

Model	DCS-6113	DCS-6210	DCS-6314	DCS-6315	DCS-6511	DCS-6513
Image Sensor						
Type	1/2.7" 2 Megapixel Progressive Scan CMOS	1/2.7" 2 Megapixel Progressive Scan CMOS	1/2.8" 2 Megapixel Progressive Scan CMOS	1/2.8" 2 Megapixel Progressive Scan CMOS	1/3" 1.3 Megapixel Progressive Scan CMOS	1/2.8" 3 Megapixel WDR Progressive Scan CMOS
Megapixel	•	•	•	•	•	•
Wide Dynamic Range (WDR)			•	•	•	•
LowLight+				•		
Maximum Video Resolution (Pixels)	1920 x 1080	1920 x 1080	1920 x 1080	1280 x 720	1280 x 1024	1920 x 1080
Lens						
Type	Fixed	Fixed	Varifocal	Varifocal	Motorised Varifocal	Motorised P-Iris Varifocal
Focal Length	4.0 mm	4.3 mm	2.8~12 mm	2.8~12 mm	3.3~2 mm	3~9 mm
F-Number	F1.5	F2.0	F1.4	F1.4	F1.4~3.6	F1.2~2.3
Minimum Illumination (Lux)	0.12 Lux (colour) 0 Lux (B&W, IR-LED on)	1 Lux	0.2 Lux (colour), 0 Lux (B&W, IR-LED on)	0.1 Lux (colour), 0 Lux (B&W, IR-LED on)	0.1 Lux (colour), 0 Lux (B&W, IR-LED on)	0.5 Lux (colour), 0 Lux (B&W, IR-LED on)
Angle of View (Horizontal/Vertical)	77.4°/45.1°	79°/43°	96.5°~31.2°/ 64.5°~17.8°	90°~28°/ 58.8°~16°	23°~89°/ 63°~17°	96.4°~31.6°/ 51.2°~17.7°
Optical Zoom			4X	4X	3.6X	3X
Privacy Masks	5 zones	3 zones	3 zones	3 zones	3 zones	3 zones
Day and Night						
ICR Filter	•		•	•	•	•
IR Built-in	10m		15m	15m	20m	20m
Audio						
2-Way Audio	•		•	•	•	•
Built-in Microphone		•				
External Microphone Input	•		•	•	•	•
Built-in Speaker						
External Speaker Output	•		•	•	•	•
Connectivity						
Wired LAN	•	•	•	•	•	•
Wireless LAN						
802.3af PoE	•	•	•	•	•	•
Digital Input/Output	DI x 1, DO x 1		DI x 1, DO x 1	DI x 1, DO x 1	DI x 1, DO x 1	DI x 1, DO x 1
Monitor Output	BNC Output				BNC Output	BNC Output
Memory Card Slot	•	•	•	•	•	•
Software Features						
Video Format	H.264, MPEG-4, MJPEG	MJPEG, MPEG-4, H.264	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	MJPEG, MPEG-4, H.264	H.264, MPEG-4, MJPEG
Multi-Stream	•	•	•	•	•	•
Multi-Profile		•	•	•	•	•
Digital Zoom	16X	10X	10X	10X	10X	10X
HTTP Secure (HTTPS)	•	•	•	•	•	•
Java Support			•	•		•
Motion Detection	•	•	•	•	•	•
E-Mail Notification	•	•	•	•	•	•
Recording to Local Storage	•	•	•	•	•	•
Recording to NAS	•	•	•	•	•	•
Audio Recording	•	•	•	•	•	•
Video Output to 3GPP	•	•	•	•	•	•
UPnP Installation	•	•	•	•	•	•
DDNS Support	•	•	•	•	•	•
Enable/Disable LED Indicators			•	•	•	•
D-ViewCam™ Compatible	•	•	•	•	•	•
Physical and Environmental						
IP Rating		IP68	IP68	IP68	IP66	IP67
Vandal Proof		IK10	IK10	IK10	IK10	IK10
Dimensions	130 x 97.8 mm (Ø x H)	115.52 x 106.75 x 51.59 mm	123 x 113.7 x 128 mm	123 x 113.7 x 128 mm	127 x 151.79 x 191.8 mm	151.79 x 191.3 x 127 mm
Weight	472 g	412.2 g	1.112 kg	1.112 kg	1.030 kg	1.53 kg
Max. Power Consumption	5.3 W	7.8 W	10.5 W	10.5 W	9 W	10.5 W
Operating Temperature	0 to 40°C	-25 to 50°C	-30 to 50°C	-30 to 50°C	-40 to 50°C	-40 to 50°C
Operating Humidity	20% to 80% RH Non-condensing	20% to 80% RH Non-condensing	20% to 80% RH Non-condensing	20% to 80% RH Non-condensing	20% to 80% RH Non-condensing	20% to 80% RH Non-condensing
Accessories						
Mounting Options			DCS-34-2 DCS-34-3	DCS-34-2 DCS-34-3	DCS-34-2 DCS-34-3	DCS-34-2 DCS-34-3

Pan, Tilt, Zoom (PTZ) Network Cameras

These high speed dome cameras feature endless (360º) pan for wide range surveillance. Equipped with outdoor enclosure and ultra low lux CCD sensor and ICR support, these cameras are very useful for many applications. They have many preset points and an auto patrol cruise that can work as a multiple camera inside or outside a building.

Indoor

DCS-5020L

Wireless N Day & Night Pan/Tilt Cloud Camera

- 1/5" 1 megapixel progressive scan CMOS sensor
- Fixed lens (2.2 mm, F2.0)
- Motorised pan/tilt with +170° to -170° pan range and +95° to -25° tilt range
- 640 x 480 resolution
- Up to 8 m night vision with integrated IR illuminator
- 4x digital zoom
- Built-in microphone
- Built-in wireless extender (max. 5 clients)
- Supports MJPEG and H.264 video formats
- Motion and sound detection, event recording and e-mail notification with snapshots and video

Wireless N & G

DCS-5222L

Pan/Tilt/Zoom Cloud Camera

- 1/4" 1 megapixel progressive scan CMOS sensor
- Fixed lens (4.57 mm, F1.9)
- Motorised pan/tilt with +170° to -170° pan range and +90° to -25° tilt range
- HD 720p resolution
- Up to 5 m night vision with integrated IR illuminator
- 4x digital zoom
- 2-way audio with built-in microphone and external speaker output
- Supports MJPEG, MPEG-4 and H.264 video formats
- Recording to local microSD card slot or to a NAS device
- Motion detection, event recording and e-mail notification with snapshots
- Integrated PIR (Passive Infrared) sensor for enhanced motion detection

Wireless N & G · 100Mbps LAN x1

DCS-5615

Full HD Mini Pan & Tilt Dome Network Camera

- 1/2.7" 2 megapixel progressive scan CMOS sensor
- Fixed lens (4.0 mm, F1.5)
- Motorised pan/tilt with +180° to -180° pan range and +90° to 10° tilt range
- Full HD 1080p resolution
- 16x digital zoom
- Built-in microphone
- Supports MJPEG, MPEG-4 and H.264 video formats
- Recording to local microSD card slot or to a NAS device
- Motion detection, event recording and e-mail notification with snapshots
- Tamper detection

100Mbps LAN x1 · Power over Ethernet

Outdoor

DCS-6616

12x WDR Speed Dome Network Camera

- 1/4" Sony Super HAD-II CCD sensor
- Motorised varifocal lens (3.8~45.6 mm, F1.6~2.7)
- Motorised pan/tilt with fast 10~ 400°/sec 360° endless pan and 10° to 170° tilt range
- Proportional pan/tilt, when camera zooms the tracking speed slows for more accurate control
- Wide Dynamic Range (WDR) technology for exceptional picture quality in extreme contrast environments
- 720 x 576 (NTSC) or 720 x 480 (PAL) resolution
- Day and night with IR-cut removable filter (ICR)
- 12x digital zoom
- 2-way audio with external microphone input and speaker output
- Supports MJPEG, MPEG-4 and H.264 video formatsMotion detection, event recording and e-mail notification with snapshots
- Analogue output

100Mbps LAN x1 · 12x Optical Zoom

DCS-6815

18x WDR Speed Dome Network Camera

- 1/4" Sony Super HAD-II CCD sensor
- Motorised varifocal lens (3.4~61.2 mm, F1.4~3.0)
- Motorised pan/tilt with fast 10~ 400°/sec 360° endless pan and -10° to 190° tilt range
- Proportional pan/tilt, when camera zooms the tracking speed slows for more accurate control
- Wide Dynamic Range (WDR) technology for exceptional picture quality in extreme contrast environments
- 720 x 576 (NTSC) or 720 x 480 (PAL) resolution
- Day and night with IR-cut removable filter (ICR)
- 12x digital zoom
- 2-way audio with external microphone input and speaker output
- Supports MJPEG, MPEG-4 and H.264 video formatsMotion detection, event recording and e-mail notification with snapshots
- Analogue output
- IP-66 weatherproof and IK-10 vandal proof housing

100Mbps LAN x1 · 18x Optical Zoom

DCS-6915

20X Full HD WDR Speed Dome Network Camera

- Sony Exmor 1/2.8" 3 megapixel progressive scan CMOS sensor
- Motorised varifocal lens (4.7~94 mm, F1.6~3.5)
- Motorised pan/tilt with fast 5~ 400°/sec 360° endless pan and -10° to 190° tilt range
- Proportional pan/tilt, when camera zooms the tracking speed slows for more accurate control
- Wide Dynamic Range (WDR) technology for exceptional picture quality in extreme contrast environments
- Full HD 1080p resolution
- Day and night with IR-cut removable filter (ICR)
- 2-way audio with external microphone input and speaker output
- Supports MJPEG and MPEG-video formats
- Recording to local microSD card slot or to a NAS device
- Motion detection, event recording and e-mail notification with snapshots
- IP-66 weatherproof and IK-10 vandal proof housing

100Mbps LAN x1 · 20x Optical Zoom

Model	DCS-5020L	DCS-5222L	DCS-5615	DCS-6616	DCS-6815	DCS-6915
Image Sensor						
Type	1/5" VGA Progressive Scan CMOS	1/4" 1 Megapixel Progressive Scan CMOS	1/2.7" 2 Megapixel Progressive Scan CMOS	1/4" Sony Super HAD II CCD	1/4" Sony Super HAD II CCD	1/2.8" Sony Exmor 2 Megapixel CMOS
Megapixel		•	•			•
Wide Dynamic Range (WDR)				•	•	•
Maximum Video Resolution	640 x 480	1280 x 720	1920 x 1080	NTSC: 720 x 480 PAL: 720 x 576	NTSC: 720 x 480 PAL: 720 x 576	1920 x 1080
Lens						
Type	Fixed	Fixed	Fixed	Varifocal	Motorised varifocal	Motorised varifocal
Focal Length	2.2 mm	4.57 mm	4 mm	3.8~45.6 mm	3.4~61.2 mm	4.7~94 mm
F-Number	F 2.0	F1.9	F1.5	F1.6~F2.7	F1.4~F3.0	F1.6~3.5
Minimum Illumination (Lux)	1 Lux (colour) 0 Lux (B&W, IR-LED on)	1 Lux (colour) 0 Lux (B&W, IR-LED on)	1 Lux (colour)	0.1 Lux (colour) 0.01 Lux (B/W)	0.01 Lux (colour) 0.01 Lux (B/W)	0.1 Lux (colour) 0.01 Lux (B/W)
Angle of View (Horizontal/ Vertical)	66.22°/43 °	45.7°/29.5°	77.4°/45.1°	4.49°~52.8°/ 3.40°~39.7°	60.8°~3.6°	52.27°~4.07°/ 33.4°~2.33°
Motorised Pan/Tilt	•	•	•	•	•	•
Optical Zoom				12X	18X	20X
Privacy Masks		3 zones	5 zones	16 zones	16 zones	16 zone
Day and Night						
ICR Filter	•	•		•	•	•
IR Built-in	8m	5 m				
Audio						
2-Way Audio		•		•	•	•
Built-in Microphone	•	•	•			
External Microphone Input				•	•	•
Built-in Speaker		•				
External Speaker Output				•	•	•
Connectivity						
Wired LAN	•	•	•	•	•	•
Wireless LAN	802.11b/g/n	802.11b/g/n				
802.3af PoE			•			
Digital Input/Output		DI x 1, DO x 1	DI x 1,	DI x 8, DO x 1	DI x 8, DO x 1	DI x 4, DO x 1
Monitor Output				BNC Output	BNC Output	
Memory Card Slot		•	•			•
Software Features						
Video Format	H.264, MJPEG	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	MJPEG, MPEG-4	H.264, MJPEG
Multi-Stream	•	•	•	•	•	•
Multi-Profile	•	•	•	•		•
Digital Zoom	4X	16X	16X	12X	12X	10X
HTTP Secure (HTTPS)		•	•			
Java Support	•					
Motion Detection	•	•	•	•	•	•
E-Mail Notification	•	•	•	•	•	•
Schedule Recording to Hard Drive		•	•	•		•
Recording to NAS		•	•	•	•	
Audio Recording	•	•	•	•	•	
Video Output to 3GPP	•	•	•			
UPnP Installation	•	•	•	•	•	•
DDNS Support	•	•	•	•	•	•
Enable/Disable LED Indicators	•	•	•			
D-ViewCam™ Compatible	•	•	•	•	•	•
Physical and Environmental						
IP Rating					IP66	IP66
Vandal Proof					IK10	IK10
Dimensions	102.35 x 101.27 x 133.6 mm	114 x 125 mm (Ø x H)	116.34 x 56.7 mm (Ø x H)	131 x 205 mm (Ø x H)	190 x 302.5 mm (Ø x H)	191.97 x 282.11 mm (Ø x H)
Weight	292.4 g	540 g	210 g	1.2 kg	2.6 kg	2.32 kg
Max. Power Consumption	8.64 W	9 W	5.8 W	14 W	65 W (with heater)	65 W (with heater)
Operating Temperature	0 to 40°C	0 to 40°C	0 to 40°C	0 to 40°C	-40 to 50°C	-45 to 50°C
Operating Humidity	20% to 80% RH Non-condensing	20% to 80% RH Non-condensing	20% to 80% RH Non-condensing	20% to 80% RH Non-condensing	20% to 80% RH Non-condensing	20% to 80% RH Non-condensing
Accessories						
Mounting Options					DCS-32-1, DCS-32-2, DCS-32-4	
Other					DCS-80-6 (Outdoor PSU)	

Video Management Software (VMS)

D-ViewCam™ Standard (DCS-100) Video Management Software (VMS), bundled with D-Link's network cameras, provides video recording, live view and playback management for network cameras and video servers.

D-ViewCam™ Standard network camera surveillance software (DCS-100) is bundled with D-Link network cameras and is a comprehensive surveillance system designed to centrally manage multiple IP cameras for Home, Small Office Home Office (SOHO), or Small and Medium Business (SMB) users. Supporting up to 32 network cameras, D-ViewCam™ is compatible with all current D-Link IP cameras and video servers. It offers digital monitoring and recording capabilities of video, audio and events for various security applications. This software provides users with a wide array of features including video recording, playback and video live view.

The easy-to-use D-ViewCam™ software allows users to manage up to 32 network cameras on one screen and display real-time operating information from the camera on the main screen. The e-map mode allows users to arrange a map with camera locations and orientation. Additonal features such as auto-patrol, rotate, zoom, and focus provide users with optimal control over their video surveillance. Up to 64 live clients can monitor videos via browsers.

D-ViewCam™ offers users scheduled, motion and manual recording options to meet individual needs. Recorded files can be searched by video type and selected within the user interface where the files can be played, edited and converted into AVI or ASF files.

Event action configuration provides users with optimal surveillance and security by detecting motion occurring on the cameras or through added devices such as smoke detectors, magnetic door sensors, emergency buttons, card readers and other I/O devices. By attaching these devices to a compatible D-Link IP camera, a warning will be sent to D-ViewCam™ to notify users during the occurrence of an event. Users can combine event actions, such as triggering I/O devices and send email notifications when an event occurs.

The backup function of D-ViewCam™ saves everything from the playback panel including log information. Users can load backup files to any PC with a Windows operating system. D-ViewCam™ also provides a DB-Tool utility to help users reconstruct, repair or relocate the database in a local drive, external drive or network drive. Backup videos and logs can also be burned onto CDs.

Video Display

Video Playback

Camera Accessories

Brackets, PSU

Model		DCS-32-2	DCS-34-3
Mounting Options	Type	Straight Tube (Short)	Bent Mount
	Compatible With	DCS-6815	DCS-6314, DCS-6315, DCS-6511

Model		DCS-80-6
Power Supplies	Input Power	220~230 V AC
	Output	24 V DC
	Protection	IP66
	Compatible With	DCS-6815

Video Encoders

D-Link's high-performance, single channel video encoder integrates an existing analogue CCTV (closed circuit television) into an IP-based video surveillance system.

These video encoders are the ideal choice for businesses where surveillance equipment is already installed and functioning. The alarm handling features provide alerts in the event of loss of video or loss of network connection. Motion alarms with configurable detection areas allow for effective surveillance and help to mitigate the need for constant human supervision. A buffer system allows the server to capture images to the built-in SD card slot both before and after an event occurs.

What is a Video Encoder?

Video encoders, also known as video servers, enable an existing analogue CCTV video surveillance system to be integrated with a network video system. Video encoders play an important role in installations where many analogue cameras are to be maintained.

A video encoder makes it possible for an analogue CCTV system to migrate to a network video system. It provides the benefits of network video without having to discard existing analogue equipment such as analogue CCTV cameras and coaxial cabling.

How does it work?

A video encoder connects to an analogue video camera via a coaxial cable and converts analogue video signals into digital video streams that are then sent over a wired or wireless IP-based network (e.g. LAN, WLAN or Internet). To view and/or record the digital video, computer monitors and PCs can be used instead of DVRs or VCRs and analogue monitors.

By using video encoders, analogue video cameras of all types, such as fixed, indoor/outdoor, dome, pan/tilt/zoom, and other specialist cameras can be remotely accessed and controlled over an IP network.

What are the benefits of a Video Encoder?

A video encoder also offers other benefits such as event management and advanced video and security functionalities. In addition, it provides scalability and ease of integration with other security systems.

DVS-310-1

H.264 PoE Video Encoder

- H.264/MPEG4/MJPEG dual codec
- 2-way audio
- Motion detection
- 1-channel BNC input
- SD card slot*
- PoE support
- Digital input x 2
- Digital output x 1
- RS-485 interface
- Audio line in/out

Model		DVS-310-1
Network Specifications	Connection	1 x 10/100BASE-TX
	802.3af PoE Compatible	•
	Network Protocols	IPv4, DHCP, ARP, DNS, TCP/IP, DDNS (D-Link), HTTP, HTTPS, UPnP™,Port Forwarding, Samba, SMTP, PPPoE, NTP (D-Link), FTP, RTP, RTSP, UDP, RTCP, ICMP, 3GPP
Video Specifications	Video Format	MJPEG, MPEG-4, H.264
	Bit Rate	64 Kbps to 4 Mbps
	Supported Resolutions	PAL: D1 (720x576), CIF (352x288), QCIF (176x144) NTSC: D1 (720x480), CIF (352x240), QCIF (176x120)
	Video Input	1CH, NTSC/PAL, BNC Connector, 1.0Vp-p with 75 Ω Loading
	Video Recording	Instant Local Video Recording
	Video Buffer	Pre/Post Buffer for Image/Video Capture
Audio	Bidirectional Audio	•
	Audio Connector	3.5 mm Stereo Input/Output
	Audio Input	8 KHz Sample Rate, ADPCM
	Audio Output	8 KHz Sample Rate, ADPCM
	Audio Codec	G.726
Pan/Tilt/Zoom	PTZ Connection	RS-485
	PTZ Protocols	PelcoP, PelcoD, Merit Lilin, Visca, DynaColour, Transparent
	Baud Rate	1200, 1800, 2400, 4800, 9600, 19200
Digital I/O	Number of Inputs	2
	Number of Outputs	1
Alarm Handling	Loss Detection	Video and Network Loss Detection
	Motion Detection	Hardware Based, Multiple Detection Areas
	Event Handler	Alerts by FTP and Email
Storage	Local Storage	SD Card
Video Management Software	D-ViewCam™	Compatible
Physical and Environment	Dimension (L x W x H)	90 x 78 x 36 mm
	Weight	232 g
	Operating Temperature	0 to 40°C
	Operating Humidity	20% to 80% RH Non-condensing

SD Card not included

Network Video Recorders

D-Link's standalone wired Network Video Recorders (NVR) support 8-channel network cameras with MJPEG, MPEG4 or H.264 recording with 2 high-speed 3.5-inch SATA hard disks for long term recording. The NVR can record video from IP cameras located in local or remote sites into a dedicated HDD storage without turning on a computer. The NVRs support real-time monitoring and via a web browser.

DNR-312L

mydlink™ Network Video Recorder with HDMI

- One bay for SATA hard disks (not Included)
- HDMI display output
- 2 x USB port for keybaord/mouse control, storage backup, UPS status update
- Support for all D-Link cameras
- Monitor and record up to 9 cameras Simultaneously using MJPEG, MPEG4 or H.264
- Accessible from the Internet with mydlink™
- HD recording (720p)

1Gbps LAN x1 | USB 2.0 x 2 | mydlink

DNR-322L

Cloud Network Video Recorder

- Accessible from the Internet with mydlink™
- USB port for UPS status update
- 2 bays for SATA HDD
- Device lock hole
- 9 channel IP camera recording
- 1 channel playback
- RAID 0/1 and JBOD
- HD recording (720p)
- Configurable Recording Schedules
- Supports D-Link IP cameras

1Gbps LAN x1 | USB 2.0 x 1 | 2-Bay | mydlink

DNR-326

2-Bay Professional Network Video Recorder

- Two bays for SATA hard disks (not Included) with optional RAID 1 protection
- USB port for UPS status update
- Support for all D-Link cameras as well as 3rd party cameras (Axis, Panasonic, Sony, Mobotix, Cisco, etc)
- Monitor and record up to 9 cameras Simultaneously using MJPEG, MPEG4 or H.264
- SmartSearch Technology to simplify event investigation
- Full HD recording (1080p)
- Digital watermark to prevent tampering on recorded files

1Gbps LAN x1 | USB 2.0 x 1 | 2-Bay

DNR-2060-08P

JustConnect™ Multifunctional Network Video Recorder

- Six bays for SATA hard disk drives
- HDMI and VGA dual display output
- Front panel controls
- Auto discovery and auto configuration
- Up to 8-channel IP camera recoring
- Built-in PoE+ switch
- Local HDMI and VGA display output
- Front panel controls
- Supports D-Link IP Cameras

1Gbps LAN x1 | USB 2.0 x 3 | just connect

		DNR-312L	DNR-322L	DNR-326	DNR-2060-08P
General	Channel Number	9 Channels	9 Channels	9 Channels	8 Channels
	Compression Format	H.264/MPEG-4/MJPEG	H.264/MPEG-4/MJPEG	H.264/MPEG-4/MJPEG	H.264/MJPEG
	Max. Recording Performance	H.264 at 720p at 270 fps	H.264 1080P: 90 Mbps H.264 720P: 90 Mbps MJPEG 1080P: 90 fps MJPEG 720P: 192 fps	H.264 1080P: 90 Mbps H.264 720P: 90 Mbps MJPEG 1080P: 90 fps MJPEG 720P: 192 fps	H.264 at 1080p at 240 fps
Video Management-Live View	VIdeo Output	HDMI			HDMI + VGA
	Display Mode	1, 4, 9 Split Screen	1, 4, 6, 9, 16, 25, 36, 64 Split Screen	1, 4, 6, 9, 16, 25, 36, 64 Split Screen	1, 4, 8 Split Screen
	Auto Scan	•	•	•	•
	PTZ Control	•	•	•	•
	Auto Pan/Petrol	•			•
	One/Two-way Audio	Two-way Audio	One-way Audio	One-way Audio	One-way Audio
Video Management-Recording	Recording Type	Schedule/ Manual/ Event (Motion)	Schedule/ Manual/ Event (Motion)	Schedule/ Manual/ Event (DI/ Motion)	Schedule/ Manual/ Event (DI/ Motion)
	Edge Motion Detection (by Camera)	•	•	•	•
	Pre-recording/ Post-recording Period	Pre-rec: 60 sec/ Post-rec: 300 sec	Pre-rec: 180 sec/ Post-rec: 180 sec	Pre-rec: 180 sec/ Post-rec: 180 sec	Pre-rec: 70 sec/ Post-rec: 70 sec
	Audio Recording	•	•	•	•
	Auto Recycling (Disk Capacity)/ Scheduled Recycling (Days)	•	•	•	•
Video Management-Playback	Simultaneously Playback Channel	9 Channel	1 Channel	4 Channels	8 Channel
	Playback Mode	Video Control (Play, Stop, Pause, Forward, Backward, Next, Previous)	Video Control (Play, Stop, Pause, Forward, Backward, Next, Previous)	Video Control (Play, Stop, Pause, Forward, Backward, Next, Previous)	Video Control (Play, Stop, Pause, Forward, Backward, Next, Previous)
	Digital Zoom Ratio	16X	4X	4X	2X
	Audio Control	•	•	•	•
	Video Search (Factor)	• (Time, Event, Camera)	• (Time, Event, Camera)	• (Time, Event, Camera)	• (Text, Time, Event, Camera)
	Smart/ Intelligent Search (Factor)			• (Motion Detection, Missing/ Abandoned Object, Lost Focus/ Camera Occlusion)	
	Video Enhancement		•	•	
	Video Export File Format	AVI	AVI/ASF (Time Stamp)	AVI/ASF (Time Stamp)	DRV/AVI/RAW
	Image Export File Format	BMP/JPG	BMP/JPG	BMP/JPG	JPG
	Tamper-Proof (Digital Watermark)	•	•	•	•
Event Management	I/O Control			•	•
	Event to Email	•	•	•	•
	Event to Alarm	•			•
	Event by Signal Lost	•		•	•
	Event by Disk Full	•	•	•	•
Remote Access	Client Viewer	Browser/mydlink View NVR APP	Browser/mydlink Mobile App	Browser/Multi-NVR Viewer	Browser/JustConnect™+ Mobile App
	Remote View	•	•	•	•
	Concurrent Channel per Client (Max)	9 Channels	9 Channels	9 Channels	8 Channels
	Playback Viewer	Browser/ Playback Manager	Browser/ Playback Manager	Browser/ Playback Manager	Browser/ Playback Manager
E-Map	E-Map Layer	3 Layer	1 Layer	1 Layer	1 Layer
	E-Map Image Format	BMP/ JPG	BMP/ JPG	BMP/ JPG	JPG
Compatibility	Supported Camera	D-Link Cameras	D-Link Cameras	D-Link Cameras & 3rd Party	D-Link Cameras
	Auto Surveillance VLAN Support	•	•	•	
Hardware	HDD Bay	1 x 3.5" SATA HDD, Max. 4TB	2 x 3.5" SATA HDD, Max. 8TB	2 x 3.5" SATA HDD, Max. 8TB	6 x 3.5" SATA HDD, Max. 18TB
	HDD Configuration	Single	Single, RAID 0/ 1, JBOD	Single, RAID 0/ 1, JBOD	Single
	NAS (File Server)		Yes (Standard HDD Mode)	Yes (Standard HDD Mode)	
	Network Interface	1 x Gigabit Port	1 x Gigabit Port	1 x Gigabit Port	1 x Gigabit Port 8 x 802.3at Fast Ethernet Ports
	PoE support				• (802.3at)
	Backup Options	USB			USB, eSATA
	Front Panel Control				•
	Auto Boot-Up (Power Recovered)	•	•	•	•
	Dimensions	49.8 x 141.6 x 173 mm	115 x 146.4 x 178.5 mm	115 x 146.4 x 178.5 mm	90.4 x 440.4 x 450.9 mm
	Weight	425 g	875 g	875 g	9.02 kg
	Power Consumption	30 W (Max) 0.337 W (Standby)	25.20 W (Max) 0.234 W (Standby)	25.20 W (Max) 0.234 W (Standby)	200 W (with PoE on)
	Operation Temperature	0~40°C	0~55°C	0~55°C	0~40°C
	mydlink Functions	Live View, Playback, Disk/Camera Status			

Network Storage

Every business requires a reliable way of storing and backing up their data. D-Link provides a range of simple and cost-effective network storage products to meet any data management challenges. Products under this category include Storage Area Network Arrays (IP SAN) and Network Attached Storage (NAS) devices such as the Cloud enabled ShareCenter™ 2-Bay and 4 Bay Storage Network Enclosures with which you can share, download, delete or upload documents, files and media content such as photos, presentations and videos on a network or remotely over the Internet via the secure mydlink™ portal or using the mydlink™ app available for iPhone, iPad and Android.

Range Overview

Network Attached Storage (NAS)

4-BAY

DNS-345

2-BAY

DNS-320

DNS-320L/DNS-320LW

DNS-327L

1-BAY

DNS-315

Storage Area Network Arrays (IP SAN)

12-BAY

Scales to 60 drives

DSN-6110

DSN-6120

DSN-6410

DSN-6420

Unified Storage Appliances

5-BAY

DNS-1200-05

4-BAY

DNS-1550-04

DNS-1560-04

Storage Area Network Arrays (iSCSI SAN)

D-Link's Storage Area Network Arrays (iSCSI SAN) are designed to provide a reliable network data storage solution for entry-level and SMB segments. These storage arrays can be easily implemented in Virtualised Server environments, nearline storage or as a supplement to the primary backup and recovery devices.

DSN-6110

12-Bay 2U Rackmount iSCSI SAN Array with Single Controller

- 12 x 3.5" SAS/SATA-II Bays
- 4x Gigabit Ethernet ports
- Single RAID Controller
- RAID 0/1/1+0/5/6/50/60, JBOD, N-way mirror
- SAS/SATA-II

DSN-6120

12-Bay 2U Rackmount iSCSI SAN Array with Dual Controllers

- 12 x 3.5" SAS/SATA-II Bays
- 8x Gigabit Ethernet ports
- Dual RAID Controller
- RAID 0/1/1+0/5/6/50/60, JBOD, N-way mirror
- SAS/SATA-II

DSN-6410

12-Bay 2U Rackmount iSCSI SAN Array with Single Controller

- 12 x 3.5" SAS/SATA-II Bays
- 2x 10GbE ports
- Single RAID Controller
- RAID 0/1/1+0/5/6/50/60, JBOD, N_way mirror
- SAS/SATA-II

DSN-6420

12-Bay 2U Rackmount iSCSI SAN Array with Dual Controller

- 12 x 3.5" SAS/SATA-II Bays
- 2x 10GbE ports
- Dual RAID Controller
- RAID 0/1/1+0/5/6/50/60, JBOD, N-way mirror
- SAS/SATA-II

DSN-6020

12-Bay 2U Rackmount Expansion Enclosure for DSN-6000 Series

- 12 x 3.5" SAS/SATA-II Bays
- 4xSAS Ports
- SAS/SATA-II

Model		DSN-6110	DSN-6120	DSN-6410	DSN-6420
Storage Features	Number of Bays	12	12	12	12
	Cache Memory	4 GB Standard	4 GB Standard	4 GB Standard	4 GB Standard
	Cache Battery Backup	Module (72 hours)			
	Bandwidth	500 Mbps	900 Mbps	650 Mbps	1300 Mbps
	Max Capacity	48 TB*	48 TB*	48 TB*	48 TB*
	Drive Type	SAS SATA-II			
iSCSI	iSCSI Network Interface	4 x Gigabit Ports	4 x Gigabit Ports	2 x 10 GbE Ports	4 x 10 GbE Ports
	Host Interface				
	Max Hosts	16,384			
	CHAP Authentication	•	•	•	•
	Management Access Control	•	•	•	•
	iSCSI/TCP/IP Full Hardware Offload	•	•	•	•
	Jumbo Frame	•	•	•	•
	802.3ad Link Aggregation	4 Ports	4 Ports	2 Ports	2 Ports
	VLAN Support	•	•	•	•
Volume and RAID	RAID Controller	Single (Module)	Dual (Modules)	Single (Module)	Dual (Modules)
	RAID Support	0, 1, 1+0, 3, 5, 6, 10, 30, 50, 60			
	Volumes				
	Target Nodes				
	Online Capacity Expansion	•	•	•	•
	Hot-Swappable Drives	•	•	•	•
	Instant Volume Access	•	•	•	•
	Free Space Defragmentation	•	•	•	•
	Failed Drive Auto-Detection	•	•	•	•
	Spare Drive Auto-Rebuild	•	•	•	•
	RAID Level Migration	•	•	•	•
	Drive Roaming in Power Off	•	•	•	•
	Micro Rebuilds	•	•	•	•
Storage Management	Web-Based GUI				
	Firmware Upgradeable	•	•	•	•
Physical and Environmental	Supply Type	2 x 500 W (Redundant)			
	Dimensions	442.8 x 500.6 x 88.0 mm			
	19" Rack Space	2U	2U	2U	2U
	Operating Temperature				
	Operating Humidity	5% to 95% RH Non-condensing			

* Max capacity can be increased with future firmware upgrades

Network Attached Storage (NAS)

D-Link's Network Attached Storage solutions are designed to provide simple, reliable network storage for businesses of all sizes. These NAS devices can be easily deployed to provide centralised file sharing and protect data on any network.

DNS-320

ShareCenter™ 2-Bay Network Storage Enclosure

- 2 X 3.5"Internal SATA I/II Hard Drive bays - up to 8TB
- Disks can be configured for separate access, JBOD or RAID 0/1 depending on redundancy or performance requirements"
- Easy installation and setup of hard disk drives
- USB Port for printer sharing and external backup disk attachment plus UPS monitoring
- Download movies, music and photos to you iOS or Android devices to view later
- Stream digital content to compatible DLNA media players such as games consoles or directly to a smart TV

DNS- 320L/LW

ShareCenter™ 2-Bay Cloud Network Storage Enclosure

- 2 X 3.5" Internal SATA I/II Hard Drive bays - up to 8TB
- Disks can be configured for separate access, JBOD or RAID 0/1 depending on redundancy or performance requirements
- Standalone device that connects directly to your router.
- USB port for printer sharing and external backup disk attachment plus UPS monitoring
- Access your files from anywhere with mydlink™ Cloud Services

DNS-327L

ShareCenter™+ 2-Bay Cloud Network Storage Enclosure

- 2 X 3.5"Internal SATA I/II Hard Drive bays - up to 8TB
- Disks can be configured for separate access, JBOD or RAID 0/1 depending on redundancy or performance requirements
- Stream digital content to compatible DLNA media players such as games consoles or directly to a smart TV
- USB 3.0 port to connect additional external storage or multifunction printer
- Includes smart library applications that allow you to organise your music and photos effortlessly
- Remotely manage data or built-in applications from anywhere using the mydlink™ mobile device app or on a PC through the mydlink™ portal

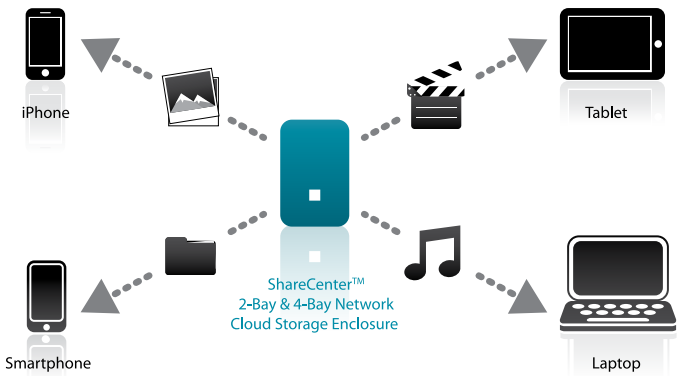
DNS-345

ShareCenter™+ 4-Bay NAS with mydlink™ Cloud

- 4x 3.5 " internal SATA I/II hard disks - up to 3TB
- Disks can be configured for separate access, as a JBOD array or with 0/1/10/5/5 + hot spare protection
- Network file sharing on mixed Windows, Mac OS and Linux networks
- Integrated backup support including backup to the cloud (Amazon S3), bundled Windows desktop backup software, Apple Time Machine support for Mac backup
- Remotely Access, Stream and Sync your digital data via the mydlink™ Cloud Portal
- Support for up to 4 x D-Link IP cameras

Model		DNS-320	DNS-320L/LW	DNS-327L	DNS-345
Storage Features	Number of Bays	2	2	2	4
	Max Capacity[1]	8 TB	8 TB	8 TB	16 TB
	Drive Type	3.5 inch SATA I/II			
Hardware and Performance	CPU Speed	1 GHz	1 GHz	1.2 GHz	1.6 GHz
	SDRAM	128 MB	256 MB	512 MB	512 MB
	Max. Throughput (Read)[2]	62 MB/s	66 MB/s	81.8 MB/s	82 MB/s
Network	Interfaces	1 x Gigabit Port 1 x USB Port	1 x Gigabit Port 1 x USB Port	1 x Gigabit Port 1 x USB 3.0 host port	2 x Gigabit Ports 1 x USB Ports
	802.3ad Link Aggregation				
	iSCSI				
	File System	CIFS/NFS/Web File Manager/ AFP/ WebDAV	CIFS/NFS/Web File Manager/ AFP/ WebDAV	CIFS/SMB, NFS, AFP	CIFS/NFS/DFS/ Web File Manager/AFP/WebDAV
	Active Directory				•
	VLAN Support				•
	Media Server	•	•	•	•
	FTP Server	•	•	•	•
	User/Group Quotas	•	•	•	•
	Dynamic DNS	•	•	•	•
	USB Drive Support	•	•	•	•
	USB Print Server Support	•	•	•	•
	USB UPS Monitoring	•	•	•	•
Volume and RAID	RAID Controller	Single (Integrated)	Single (Integrated)	Single	Single (Integrated)
	RAID Support	RAID 0/1, JBOD, Standard	RAID 0/1,JBOD, Standard	RAID 0/1, JBOD, Standard	RAID 0, 1, 5, 10, 5+Hot Spare, JBOD, Standard
	Target Nodes				
	Hot-Swappable Drives				
	Free Space Defragmentation				
	S.M.A.R.T.	•	•	•	•
	Thin Provisioning				
	Volume Snapshots				
	Virtual Disks				
Applications and 3rd Party Add-On Support	My Photos		•	•	•
	My Files	•	•	•	•
	My Music		•	•	•
	My Surveillance/Surveilance Center		•	•	•
	P2P Download	•	•	•	•
	FTP/HTTP Download	•	•	•	•
	Remote Backup	•	•	•	•
	Local Backup	•	•	•	•
	Amazon S3 Backup	•	•	•	•
	D-Link Vault			•	•
	3rd Party Add-On Support			•	•
Storage Management	Web-Based GUI	HTTP, HTTPS	HTTP, HTTPS	HTTP, HTTPS	HTTP, HTTPS
	Easy Search Utility	•	•	•	•
	Firmware Upgradable	•	•	•	•
	Email Alerts	•	•	•	•
	SNMP				•
Physical and Environmental	Display				•
	Power Supply Type	External	External	External	External
	Dimensions	90 x 144.3 x 193.3 mm	90 x 144.3 x 193.3 mm	90 x 144.3 x 195.3 mm	128 x 200 x 178 mm
	Operating Temperature	0 to 40 °C	0 to 40 °C	0 to 40 °C	0 to 40 °C
	Operating Humidity	5% to 90% RH Non-condensing	5% to 90% RH Non-condensing	5% to 90% RH Non-condensing	5% to 90% RH Non-condensing

[1] Max capacity can be increased with future firmware upgrades
[2] NASPT read using firmwares DNS-320 (1.00), DNS-320L (1.02), DNS327L (1.00), DNS-345 (1.01)



Unified Storage Appliances with NAS and iSCSI

Unified appliances offer all the benefits of NAS in terms of server-like network file sharing with management via an easy to use browser interface. In addition, however, they can also be used to provide block-level access to storage in the appliance using the iSCSI protocol.

DNS-1200-05

ShareCenter™ Pro 1200

Storage Appliance with RAID 6 availability

- 15TB and above in five hot-swap 3.5in drive bays
- RAID 5 with hot-spare plus RAID 6 to protect against two drive failures at once
- Network file sharing on mixed Windows, Mac OS and Linux network
- Virtual disks with thin provisioning and volume snapshots
- Two auto-sensing Gigabit Ethernet ports with link aggregation
- Two USB ports for printer, flash drive and external disk attachment plus UPS monitoring
- Integrated backup tools plus client software for backup of network PCs
- HTTP/S and FTP support plus DDNS for simplified remote access
- Block level iSCSI data transfers with up to 64 iSCSI targets
- Power management features including scheduled scheduled
- Power on/off, disk hibernation and SMART health scan"

1Gbps LAN x2 · citrix ready · Windows Server 2008

DNS-1550-04

ShareCenter™ Pro 1550

Rack-mount unified appliance

- 1U rack-mount format
- Hot-swap 3.5in drive bays
- Redundant hot-swap power supplies
- Dual-core processor plus 2GB RAM
- RAID 6 to protect against two drive failures at once
- Network file sharing on mixed Windows, Mac OS and Linux networks
- Up to 32 volume snapshots
- HTTP/S and FTP support plus DDNS for simplified remote access
- Block level iSCSI data transfers with up to 64 iSCSI targets
- Two auto-sensing Gigabit Ethernet ports with link aggregation and automatic failover/failback
- Five USB ports for printer, flash drive and external disk attachment plus UPS monitoring
- Integrated backup support including backup to the Cloud
- Bundled client software for backup of Windows PCs plus Apple Time Machine support

1Gbps LAN x2 · vmware READY · citrix ready

DNS-1560-04

ShareCenter™ Pro 1560

Rack-mount unified appliance

- 1U rack-mount format
- Hot-swap 3.5in drive bays
- Redundant hot-swap power supplies
- Dual-core processor plus 4GB RAM
- Network file sharing on mixed Windows, Mac OS and Linux networks
- Virtual disks with thin provisioning
- De-duplication support
- Up to 32 volume snapshots
- HTTP/S and FTP support plus DDNS for simplified remote access
- Block level iSCSI data transfers with up to 64 iSCSI targets
- Two auto-sensing Gigabit Ethernet ports with link aggregation and automatic failover/failback
- Two USB ports for printer, flash drive and external disk attachment plus UPS monitoring
- Integrated backup support including backup to the Cloud
- Bundled client software for backup of Windows PCs plus Apple Time Machine support

1Gbps LAN x2 · citrix ready · vmware READY · Windows Server 2008

Model		DNS-1200-05	DNS-1550-04	DNS-1560-04
Storage Features	Number of Bays	5	4	4
	Max Capacity	20 TB*	12 TB	16 TB
	Drive Type	3.5 / 2.5 inch SATA I/II		
Hardware and Performance	CPU Speed	Quad Core 600 MHz	Dual Core 1.8 GHz	Dual Core1.86 GHz
	SDRAM	1 GB	2 GB	4 GB
	Max. Throughput (Read)[2]	90 MB/s	89 MB/s	
Network	Interfaces	2 x Gigabit Ports 2 x USB Ports	2 x Gigabit Ports 5 x USB Ports	2 x Gigabit Ports 2 x USB Ports
	802.3ad Link Aggregation	•	•	•
	iSCSI	•	•	•
	File System	CIFS/SMB, NFS, DFS	CIFS/SMB, NFS, DFS, AFP	SMB/CIFS, NFS, AFP, FTP, WebDAV
	Active Directory	•	•	•
	VLAN Support	•	•	•
	Media Server		•	•
	FTP Server			
	User/Group Quotas	•	•	•
	Dynamic DNS			
	USB Drive Support	•	USB 2.0 Ports x 5	USB 2.0 Ports x 2
	USB Print Server Support	•	•	•
	USB UPS Monitoring	•	•	•
Volume and RAID	RAID Controller	Single (Integrated)	Single (Module)	Single (Module)
	RAID Support	0, 1, 5, 5+Spare, 6	0, 1, 5, 6, 10 and JBOD	0, 1, 5, 10 and JBOD
	Target Nodes	64	64	64
	Hot-Swappable Drives	•	•	•
	Free Space Defragmentation	•	•	•
	S.M.A.R.T.	•	•	•
	Thin Provisioning	•		•
	De-duplication			•
	Volume Snapshots	•	•	•
	Virtual Disks	•	•	•
Storage Management	Web-Based GUI	HTTP, HTTPS	HTTP, HTTPS	HTTP, HTTPS
	Easy Search Utility	•	•	•
	Firmware Upgradable	•	•	•
	Email Alerts	•	•	•
	SNMP	•	•	•
Physical and Environmental	Display	•		
	Power Supply Supply Type	Internal	Internal, 226 Ws (Redundant, 80 PLUS Certified)	Internal, 226 Ws (Redundant, 80 PLUS Certified)
	Dimensions	273 x 167 x 260 mm	429 x 442 x 44 mm	533.4 x 442 x 44 mm
	Operating Temperature	0 to 40˚C	5 to 35˚C	5 to 35˚C
	Operating Humidity	5% to 90% RH Non-condensing	10% to 85% RH Non-condensing	10% to 85% RH Non-condensing

* Max capacity can be increased with future firmware upgrades
[2] NASPT read using firmwares DNS-1200-05 (1.02)

D-Link Assist

D-Link Assist
Rapid Response Support

Expect instant help if the unexpected happens

If the unexpected happens to your network, you need the very best support and fast. Downtime costs your business money. D-Link Assist maximises your uptime by solving technical problems quickly and effectively. Our highly trained technicians are on standby around the clock, ensuring that award-winning support is only a phone call away.

Comprehensive cover available across all D-Link business products

D-Link Assist can be purchased together with any D-Link business product. So whether you're buying switching, wireless, storage, security or Video Surveillance equipment from D-Link, your peace of mind is guaranteed.

D-Link Assist also offers installation and configuration services to get your new hardware working quickly and correctly.

As standard, when you purchase a D-Link product we will exchange it should something go wrong.[1]

Convenient choice of three service levels to suit your needs

D-Link Assist Gold - for comprehensive 24-hour support

D-Link Assist Silver - for prompt same-day assistance

D-Link Assist Bronze - for guaranteed next business day response

Peace of mind from our award-winning support services

Plug into our network of highly trained specialists who will act quickly to diagnose your problem and take instant corrective action.

Choose the enhanced service level that is right for you

With a choice of three affordable service offerings covering all D-Link business products, you can select the package that suits you best.

Get expert help with your installation and configuration

Available on selected products, D-Link Assist can help you get your new hardware up and running with the minimum of fuss.

Installation services include unpacking, quality inspection, interconnection with host server, and installation and integration of software.[2]

1 Only for the duration of the hardware warranty for as long as the original buyer owns the product. Original proof of purchase may be required.

[2] D-Link products only.

Benefit from D-Link's global reach and local support

Established in 1986 D-Link has evolved to become a billion dollar global enterprise with 160 offices across 71 countries

With highly trained technicians on standby across Europe you can be sure of the very best in local support, wherever you are

Dare to compare

D-Link Assist offers remarkable value, service of the highest quality at a very reasonable price. We challenge you to find a more competitive technical support solution

Why D-Link?

D-Link is one of the world's leading network infrastructure companies, providing a complete end-to-end solution including Switching, Storage, Video Surveillance, Wireless and Security ensuring interoperability, from one vendor, with award winning support.

For nearly 27 years, D-Link has designed, developed and manufactured award winning products. It prides itself on consistently delivering innovative, high performing and intuitive products for businesses. With D-Link technology you can increase network performance and cut operational costs.

D-Link delivers its extensive range of networking products to organisations and consumers through its global network of channel partners and service providers. It understands the significance of accessing, managing, securing and sharing data and digital content, and has pioneered many IP technologies to deliver a fully integrated Digital Home and business network experience.

D-Link Assist GOLD

for comprehensive 24-hour support

D-Link Assist Gold is perfect for mission-critical environments where maximum uptime is a high priority. It guarantees four hour around-the-clock response and cover applies 24/7 for every day of the year including holidays.

D-Link Assist SILVER

for prompt same-day assistance

D-Link Assist Silver is designed for 'high availability' businesses that require rapid response within regular working hours. It provides a four hour response service Monday to Friday from 8am to 5pm, excluding holidays.

D-Link Assist BRONZE

for guaranteed response on the next business day

D-Link Assist Bronze is a highly cost-effective support solution for less critical environments. Response is guaranteed within eight business hours, Monday to Friday from 8am to 5pm, excluding holidays.

Longer warranty for longer life. For extra reassurance, D-Link Assist gives you the option of extending warranties on any D-Link business products that you purchase by three years.

D-Link assist is currently available in the following countries: Austria, Belgium, Czech Republic, Denmark, Finland*, France, Germany, Hungary, Republic of Ireland, Italy*, Luxembourg, Monaco, The Netherlands, Norway*, Poland, Portugal*, San Marino*, Spain*, Sweden*, Switzerland*, United Kingdom and Vatican.

* Partial coverage available.

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